Exhibit R-2, RDT&E Budget Item 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 0603305A: *Army Missle Defense Systems Integration*							
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	-	23.463	14.505	15.301	-	15.301	15.604	14.606	14.613	14.886	Continuing	Continuing
TR5: *Missile Defense Battlelab*	-	14.629	14.505	15.301	-	15.301	15.604	14.606	14.613	14.886	Continuing	Continuing
TR7: *Indirect Fire Protection Capability II*	-	8.834	0.000	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

Indirect Fire Protection Capability Increment 2 (IFPC2) established a new Program Element (PE) 0604319A for its RDTE program.

Previous PE/Project/Title: 0603305A/TR7 Army Missile Defense Systems Integration/TR7 Indirect Fire Protection Capability II-Intercept

Current PE/Project/Title: 0604319A/DU3 Indirect Fire Protection Capability Increment 2/ DU3 IFPC2

Please note the following:
1) The funding in FY 2011-12 is shown in PE 0603305A and
2) The funding in FY 2013-17 is shown in PE 0604319A

A. Mission Description and Budget Item Justification

This Program Element funds missile defense systems integration efforts for both the US Army Space and Missile Defense Command/Army Forces Strategic Command (USASMDC/ARSTRAT) and the Program Executive Office for Missiles and Space (PEO-MS).

USASMDC/ARSTRAT: Headquarters, Department of the Army General Order 37, dated 16 October 2006, designated USASMDC/ARSTRAT as the Army proponent for space and ground-based midcourse defense (GMD), the Army integrator for global missile defense, and the Army Service Component Command (ASCC) of the U.S. Strategic Command (USSTRATCOM). Army Regulation (AR) 10-87 Army Commands, Army Service Component Commands, and Direct Reporting Units, dated 4 September 2007 and AR 5-22 The Army Force Modernization Proponent System dated 19 August 2009 designates USASMDC/ARSTRAT as the Army specified proponent for Global Missile Defense and Space/High Altitude capabilities. As the Army proponent for space, high altitude and GMD, USASMDC/ARSTRAT is responsible to develop warfighting concepts, conduct warfighting experiments to validate those concepts, identify capabilities needed to implement the validated concepts, and develop Doctrine, Organizations, Training, Material, Leadership & Education, Personnel and Facilities (DOTMLPF) solutions to realize the GMD capabilities. As the Army integrator for global missile defense, USASMDC/ARSTRAT is responsible to review programs managed by the Army, other Services, Defense agencies and National agencies to ensure that they are correctly synchronized and will ultimately provide the capabilities required by USSTRATCOM to execute its global missile defense responsibilities.

Exhibit R-2, RDT&E Budget Item 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 0603305A: *Army Missle Defense Systems Integration*

Project TR5 funds United States Army Space and Missile Defense Command/ Army Strategic Command (USASMDC/ARSTRAT) efforts to develop and the associated operational prototyping, experimentation, operational analysis, and modeling and simulation to support of current and future Forces.

Project TR7 funds the Indirect Fire Protection Capability Increment 2 - Intercept (IFPC Inc 2-I). It is is a ground-based weapon system that will be designed to acquire, track, engage, and defeat Unmanned Aircraft Systems (UAS), Cruise Missiles (CM), and Rockets, Artillery, and Mortars (RAM). The System will provide 360-degree protection and will simultaneously engage threats arriving from different azimuths. A block acquisition approach will be used to provide this capability. The Block 1 system will consist of an existing interceptor and sensor and development of technical fire control and a Multi-Mission Launcher (MML) to support the UAS and CM mission. The Block 2 system will develop interceptors, sensors, and technical fire control to support the counter RAM mission. The IFPC Inc 2-I System will be compatible with the Army Integrated Air and Missile Defense (IAMD) C2 architecture. The IFPC Inc 2-I System will be transportable by Army common mobile platforms.

B. Program Change Summary ($ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	24.386	14.505	15.375	-	15.375
Current President's Budget	23.463	14.505	15.301	-	15.301
Total Adjustments	-0.923	0.000	-0.074	-	-0.074
• Congressional General Reductions	-0.014	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.278	-			
• Other Adjustments 1	-0.631	-	-0.074	-	-0.074

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 0603305A: *Army Missle Defense Systems Integration*	PROJECT TR5: *Missile Defense Battlelab*	

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
TR5: *Missile Defense Battlelab*	-	14.629	14.505	15.301	-	15.301	15.604	14.606	14.613	14.886	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

A. Mission Description and Budget Item Justification

Project TR5 funds United States Army Space and Missile Command/ Army Strategic Command (USASMDC/ARSTRAT) efforts to develop, analyze and mature warfighting concepts, focus military science and technology research, and conduct warfighting experiments conduct warfighting experiments to validate those concepts, identify GMD capabilities needed to implement the validated concepts, and develop Doctrine, Organizations, Training, Material, Leadership & Education, Personnel and Facilities (DOTMLPF) solutions to realize GMD capabilities. Additionally, this project funds the delivery of innovations to the warfighter through operational prototyping, and operational analysis in support of current and future Forces. The concepts, experiments, analyses, and operational prototypes apply to the entire mission areas assigned to USASMDC/ARSTRAT in its role as an Army Service Component Command (ASCC) to USSTRATCOM.

To complete these efforts the Future Warfare Center (FWC) identifies Service, Joint, Interagency and Multinational capability gaps and investigates, develops and transitions Integrated Air and Missile Defense operational prototype technology solutions. The FWC performs operational and cost benefit analyses, develops Missile Defense threat specifications and, when appropriate, investigates, develops and experiments with Integrated Air and Missile Defense capability solutions. This work is supported by models and simulation tools optimized to address the unique requirements of endo- and exo-atmospheric missile defense threats, sensors, command & control, and counter-measures.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Prototypes	8.781	8.661	9.106
Articles:	0	0	
Description: Funding is provided for the following effort			
FY 2012 Accomplishments: Managed the Command and Control Gap Filler (C2F), Demonstrate for Joint, Interagency, Intergovernmental and Multinational (JIIM) partners a capability that enables efficient, secure, timely and trusted exchange of information resulting in enhanced aerospace capability for the Army. Sustained core functions to maintain prototyping platforms and collaborate with the Integrated Air and Missile Defense community on experimentation events. Additionally maintained configuration management of prototyping systems (configuration control boards, user groups, architectures) resulting in a viable prototyping platform that has value to Joint Air and Missile Defense community. The Army Air and Missile Defense Command Planning support systems provided a net-centric infrastructure using Advanced Warfare Environment (AWarE) and Tactical integrated Geographic Environment (TIGER)			

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 0603305A: *Army Missle Defense Systems Integration*	PROJECT TR5: *Missile Defense Battlelab*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014

software in support of Army Air and Missile Defense Commands and Detachments. Integrated the Air/Event Information Sharing Services into NORTHCOM J6 decision support systems.

FY 2013 Plans:

Take the lessons learned from the FY12 efforts to continue to evaluate new technologies in realistic operating environments. This is accomplished by participating in and providing support to Unified Quest wargames and experiments to analyze and integrate technology to identify the feasibility integration into Army space, missile defense, and high altitude systems. The Space and Missile Defense Command will participate and support to biennial rewrites of Army Capstone, Operational and Functional Concepts. Continue to provide operational manager support to STRATCOM, NORTHCOM and SOCOM Joint Technical Capability Demonstrations to ensure Army space, missile defense, and high altitude equities are represented in advanced technology developments by demonstrating military utility when applied to military equipment and techniques. Examples include: supporting multi service experiments and capability development of the national-directed Phased Adaptive Approach (PAA) for Ballistic Missile Defense (BMD) as it is applied to each of the regional COCOMs; and experimenting with operationally responsive space and high altitude capabilities to ensure the broader Army enterprises can leverage the advantages of these platforms for communications, Intelligence Surveillance and Reconnaissance (ISR), position navigation, missile warning and command and control. Continue to develop mitigation strategies for Army forces to operate effectively in contested space, missile defense and cyber environments. Developing effective Integrated Missile Defense (IMD) concepts for Army support to the Phased Adaptive Approach (PAA) being implemented within each regional COCOM. Based on a successful evaluation of Air/Event Information Sharing Services into NORTHCOM J6 decision support systems support the transition of the application to a Joint Capabilities Technical Demonstration (JCTD). Will support TRADOC proponents with their responsibilities relative to doctrine, organization, training, material, leader development and education, personnel, and facilities plus related matters to continue leveraging space, missile defense, and high altitude proponent input to Joint Capabilities Integration and Development System, Science and Technology, Concept Development, Capability Development for Rapid Transition, and Capability Gap Analysis Army.

FY 2014 Plans:

Take the lessons learned from the FY13 efforts to continue to evaluate new technologies in realistic operating environments. This is accomplished by participating in and providing support to Unified Quest wargames and experiments to analyze and integrate technology to identify the feasibility integration into Army space, missile defense, and high altitude systems. The Space and Missile Defense Command will participate and support biennial rewrites of Army Capstone, Operational and Functional Concepts. Continue to provide operational manager support to STRATCOM, NORTHCOM and SOCOM Joint Technical Capability Demonstrations to ensure Army space, missile defense, and high altitude equities are represented in advanced technology developments by demonstrating military utility when applied to military equipment and techniques. Examples include: supporting multi service experiments and capability development of the national-directed Phased Adaptive Approach (PAA) for Ballistic Missile Defense (BMD) as it is applied to each of the regional COCOMs; and experimenting with operationally responsive space, space control, and high altitude capabilities to ensure the broader Army enterprises can leverage the advantages of these

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 0603305A: *Army Missle Defense Systems Integration*	PROJECT TR5: *Missile Defense Battlelab*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
platforms for communications, Intelligence Surveillance and Reconnaissance (ISR), position navigation, missile warning and command and control. Continue to develop mitigation strategies for Army forces to operate effectively in contested space, missile defense and cyber environments. Developing effective Integrated Missile Defense concepts for Army support to the Phased Adaptive Approach (PAA) being implemented within each regional COCOM. Based on the successful evaluation of Air/Event Information Sharing Services into NORTHCOM J6 decision support systems we will support the transition of the application to a Joint Capabilities Technical Demonstration (JCTD). Will support TRADOC proponents with their responsibilities relative to doctrine, organization, training, material, leader development and education, personnel, and facilities plus related matters to continue leveraging space, missile defense, and high altitude proponent input to Joint Capabilities Integration and Development System, Science and Technology, Concept Development, Capability Development for Rapid Transition, and Capability Gap Analysis Army We will sustain our core prototyping platforms, as outlined above. BC3 will be upgraded to more realistically address information flows related to Close Air Support.			
Title: Analysis, and Models and Simulations (M&S)	5.848	5.844	6.195
Articles:	0	0	
Description: Funding is provided for the following effort ***FY 2012 Accomplishments:*** Supported ongoing efforts that provided military utility and cost reduction analysis of space, missile defense, and high altitude systems specifically in realistic operating environments to be able to determine the ability of the specific technology to fill capability gaps in terms of utility to the Warfighter. The technology demonstrations and exercises were used to help expedite technology transition from the laboratory or potential dual use commercial technologies include: augmenting analysis for Training and Doctrine Command (TRADOC) experiments and technology demonstrations; Joint Fires Experiment, Nimble Fire Experiment; Global Thunder / Global Lightning. Supported PEO Missiles and Space and Fires Center of Excellence for modeling and simulation and analysis support for integrated air and missile defense. Supported technology demonstrations, Analysis and Demonstration Tools/Test Beds for evolving space superiority and operationally responsive space concepts that address emerging needs will continue and be expanded in the out years to ensure that advanced technology development can adequately address space, missile defense and high altitude doctrinal and material investments. The FWC provided program management for maintenance, sustainment, and development for Extended Air Defense Simulation (EADSIM) version 17 release, (a space, missile defense, and high altitude decision support tool utilized by over 300 Army and Joint organizations) to provide the required analysis capability to perform evaluations of the benefits of integrating technologies. ***FY 2013 Plans:*** Take the lessons learned from the FY12 efforts to continue to evaluate new technologies in realistic operating environments. This will be accomplished by supporting ongoing efforts that provide the most realistic operating environment available to perform technology gap and cost reduction analysis of space, missile defense, and high altitude systems. Realistic operating			

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 0603305A: *Army Missle Defense Systems Integration*	PROJECT TR5: *Missile Defense Battlelab*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
environments will be available to determine the ability of the specific technologies to fill capability gaps in terms of utility to the warfighter. Support of technology demonstrations, Analysis and Demonstration Tools/Test Beds for evolving space superiority and operationally responsive space concepts will address emerging needs and continue to be expanded to ensure that advanced technology development can adequately enhance address space, missile defense and high altitude. The FWC will continue to provide program management for maintenance, sustainment, and development for Extended Air Defense Simulation (EADSIM), to provide the required fidelity for a synthetic operating environment to provide the capability to perform system and cost benefit analysis. ***FY 2014 Plans:*** : Take the lessons learned from the FY13 efforts to continue to evaluate new technologies in realistic operating environments. This will be accomplished by supporting ongoing efforts that provide the most realistic operating environment available to perform technology gap and cost reduction analysis of space, missile defense, and high altitude systems. Realistic operating environments will be available to determine the ability of the specific technologies to fill capability gaps in terms of utility to the Warfighter. Support of technology demonstrations, Analysis and Demonstration Tools/Test Beds for evolving space superiority and operationally responsive space concepts will address emerging needs and continue to be expanded to ensure that advanced technology development can adequately enhance address space, missile defense and high altitude. The FWC will continue to provide program management for maintenance, sustainment, and development for EADSIM to provide the required high fidelity synthetic operating environment to provide the capability to perform system and cost benefit analysis.			
Accomplishments/Planned Programs Subtotals	14.629	14.505	15.301

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not applicable for this item.

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.

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 0603305A: *Army Missle Defense Systems Integration*	PROJECT TR5: *Missile Defense Battlelab*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Experiments & technology enhancements of prototypes/tools and analysis.	Various	Various Colorado Springs CO and Huntsville AL:Alabama, Colorado Springs	45.681	7.221		6.840		5.326		-		5.326	Continuing	Continuing	Continuing
Govt Support and Support Contracts	Various	Various Colorado Springs CO and Huntsville AL:Alabama, Colorado Springs	77.704	7.408		7.665		9.975		-		9.975	Continuing	Continuing	Continuing
Small Business Innovation Research/Small Business Technology Transfer Program	Various	Various:Various	0.155	-		-		-		-		-	Continuing	Continuing	0.000
		Subtotal	123.540	14.629		14.505		15.301		0.000		15.301			

	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	123.540	14.629		14.505		15.301		0.000		15.301			

Remarks

Exhibit R-4, RDT&E Schedule Profile: 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 0603305A: *Army Missle Defense Systems Integration*	PROJECT TR5: *Missile Defense Battlelab*

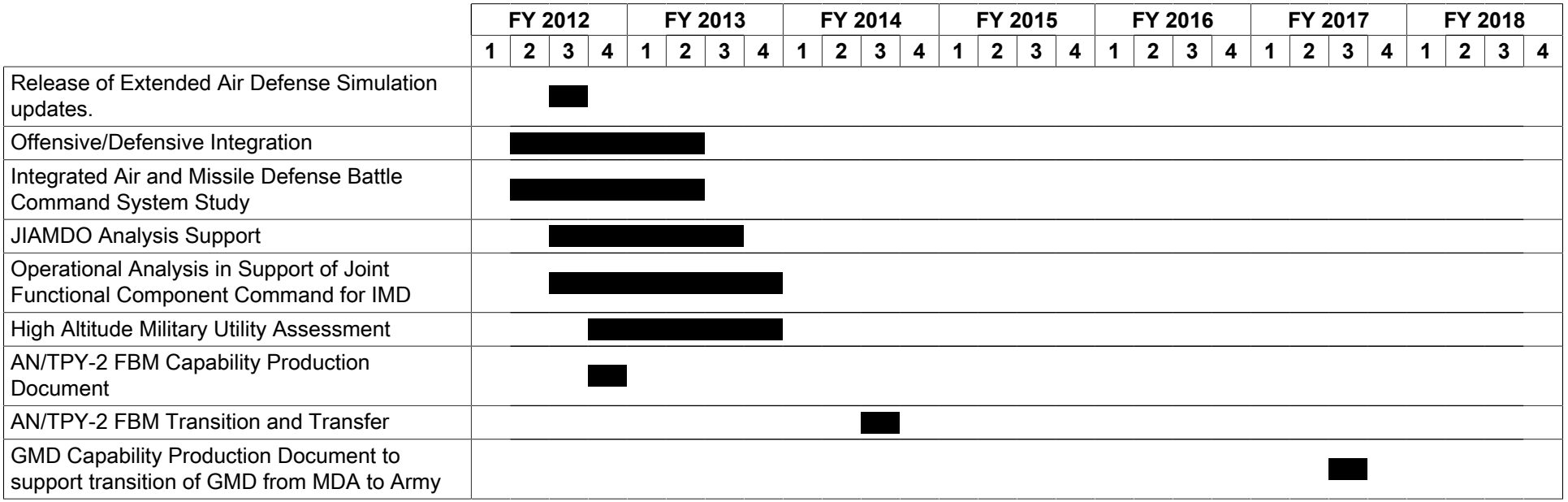

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603305A: *Army Missle Defense Systems Integration*	**PROJECT** TR5: *Missile Defense Battlelab*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Release of Extended Air Defense Simulation updates.	3	2012	3	2012
Offensive/Defensive Integration	2	2012	2	2013
Integrated Air and Missile Defense Battle Command System Study	2	2012	2	2013
JIAMDO Analysis Support	3	2012	3	2013
Operational Analysis in Support of Joint Functional Component Command for IMD	3	2012	4	2013
High Altitude Military Utility Assessment	4	2012	4	2013
AN/TPY-2 FBM Capability Production Document	4	2012	4	2012
AN/TPY-2 FBM Transition and Transfer	3	2014	3	2014
GMD Capability Production Document to support transition of GMD from MDA to Army	3	2017	3	2017

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 0603305A: *Army Missle Defense Systems Integration*	PROJECT TR7: *Indirect Fire Protection Capability II*	

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
TR7: *Indirect Fire Protection Capability II*	-	8.834	0.000	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

Indirect Fire Protection Capability Increment 2 - Intercept (IFPC2) established a new Program Element (PE) 0604319A for its RDTE program.

Previous PE/Project/Title: 0603305A/TR7 Army Missile Defense Systems Integration/TR7 Indirect Fire Protection Capability 2

Current PE/Project/Title: 0604319A/DU3 Indirect Fire Protection Capability Increment 2/ DU3 IFPC2

Please note the following:
1) The funding in FY 2011-12 is shown in PE 0603305A and
2) The funding in FY 2013-17 is shown in PE 0604319A

A. Mission Description and Budget Item Justification

This program supports the overall Air and Missile Defense (AMD) architecture and provides a robust intercept capability against Cruise Missiles (CM), Unmanned Aircraft System (UAS) and Rocket, Artillery, and Mortar (RAM) threats for deployed forces. The Indirect Fire Protection Capability Increment 2 - Intercept (IFPC Inc 2-I) is a ground-based weapon system that will be designed to acquire, track, engage, and defeat UAS, CM, and RAM. The System will provide 360-degree protection and will simultaneously engage threats arriving from different azimuths. A block acquisition approach will be used to provide this capability. The Block 1 system will consist of an existing interceptor and sensor and development of technical fire control and a Multi-Mission Launcher (MML) to support the UAS and CM mission. The Block 2 system will develop interceptors, sensors, and technical fire control to support the counter RAM mission. The IFPC Inc 2-I System will be compatible with the Army Integrated Air and Missile Defense (IAMD) C2 architecture. The IFPC Inc 2-I System will be transportable by Army common mobile platforms.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Government Product Office Support	5.056	0.000	0.000
Articles:	0		
Description: Funding is provided for the following effort			
FY 2012 Accomplishments:			

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 0603305A: *Army Missle Defense Systems Integration*	PROJECT TR7: *Indirect Fire Protection Capability II*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
- Initiated milestone documentation - Stood up government Product office to include personnel, infrastructure, travel - Established processes and procedures for managing the program - Provided technical support for Analysis of Alternatives - Supported/developed of Acquisition Strategy			
Title: Engineering Technical support for Milestone documentation, Contract Requirements Package, System Requirements Review, technical assessments/concept studies ***Articles:*** ***Description:*** Funding is provided for the following effort: ***FY 2012 Accomplishments:*** - Supported development of requirements baseline - Provided technical support for Analysis of Alternatives - Supported development of milestone documentation - Supported/developed Acquisition Strategy and performance specification - Supported system requirements preparation - Supported design of Technical Fire Control, Command Vehicle and Launcher - Developed interface control documents for system - Performed technical assessments, concept studies, cost reduction, threat analysis and required documentation	3.778 0	0.000	0.000
Accomplishments/Planned Programs Subtotals	8.834	0.000	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
• PE 0604869A, Proj M06: *Patriot/ MEADS Combined Aggregate Program (CAP)*	377.610	400.861								0.000	778.471
• PE 0605456A, Proj PA3: *PAC-3/ MSE MISSILE*	86.139	69.029	68.843		68.843	129.627	63.506	65.179	65.734	Continuing	Continuing
• SSN C53101: *MSE Missile*	74.953	12.850	540.401		540.401	540.520	559.623	566.757	655.184	Continuing	Continuing
• PE 0102419A, Proj E55: *JLENS*	317.382	190.422	98.450		98.450	46.600	47.450	37.830	2.600	Continuing	Continuing

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 0603305A: *Army Missle Defense Systems Integration*	PROJECT TR7: *Indirect Fire Protection Capability II*

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
• PE 0605455A, Proj S35: *SLAMRAAM*	1.186									0.000	1.186
• PE06043305A, Proj TR7: *Indirect Fire Protection Capability - II*	8.834									Continuing	Continuing
• PE0604319A, Proj DU3: *Indirect Fire Protection Capability Increment 2*			79.232		79.232	107.587	146.463	151.769	159.700	Continuing	Continuing
• PE 0605457A, Proj S40: *Army Integrated Air and Missile Defense (AIAMD)*	262.032	262.211	364.649		364.649	382.869	221.306	141.908	79.338	Continuing	Continuing
• SSN BZ5075: *Army IAMD Battle Command System (IBCS)*			21.200		21.200	100.700	315.370	482.640	466.130	Continuing	Continuing
• PE 0604820A, Proj E10: *SENTINEL*	3.093	3.486	1.549		1.549	5.264	5.911	6.307	6.053	Continuing	Continuing
• PE0604741A, Proj 126,146, 149: *Air Defense C2I Eng Dev*	57.050		18.294		18.294	20.898	20.557	18.009	11.015	Continuing	Continuing

Remarks

This program supports the Army Integrated Air and Missile Defense (IAMD) architecture.

D. Acquisition Strategy

The Materiel Development Decision (MDD) was completed in fourth quarter FY 2011, allowing for the initiation of an Analysis of Alternatives (AoA) to determine materiel solution approach; establishment of requirement baseline; and initiation of Acquisition Strategy.

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.

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 0603305A: *Army Missle Defense Systems Integration*	PROJECT TR7: *Indirect Fire Protection Capability II*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
FY11 Pre MDD efforts	TBD	Cruise Missile Defense Systems Project Office:Huntsville, AL	4.143	-		-		-		-		-	Continuing	Continuing	Continuing
Government Project Office Oversight	TBD	Cruise Missile Defense Systems Project Office:Huntsville, AL	0.000	1.056		-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	4.143	1.056		0.000		0.000		0.000		0.000			

Remarks

Management Services are to initiate Milestone Documentation Development; define Requirements in support of Contract Requirements Package for contract award. Support Analysis of Alternatives development.

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Developmental Engineering	TBD	Cruise Missile Defense Systems Project Office:Huntsville, AL	0.000	4.000		-		-		-		-	Continuing	Continuing	Continuing
Engineering Technical Centers (Government)	TBD	Aviation and Missile Research, Development, Engineering Center:Huntsville, AL	0.000	3.778		-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	0.000	7.778		0.000		0.000		0.000		0.000			

Remarks

Product Development costs in FY 2012 cover the development of System Engineering documentation (Technology Development Strategy; Test and Evaluation Strategy; System Engineering Plan); initiation of Contract Requirements Package development in preparation for Milestone in FY 2013 and for a prime contract award in FY 2013.

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 0603305A: *Army Missle Defense Systems Integration*	PROJECT TR7: *Indirect Fire Protection Capability II*	

	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	4.143	8.834	0.000	0.000	0.000	0.000			

Remarks