Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army										DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *Development & Demonstration (SDD)*				R-1 ITEM NOMENCLATURE PE 0605457A: *Army Integrated Air and Missile Defense (AIAMD)*							
COST ($ in Millions)	**FY 2011**	**FY 2012**	**FY 2013 Base**	**FY 2013 OCO**	**FY 2013 Total**	**FY 2014**	**FY 2015**	**FY 2016**	**FY 2017**	**Cost To Complete**	**Total Cost**
Total Program Element	246.691	270.180	277.374	-	277.374	349.231	394.260	210.580	135.072	Continuing	Continuing
DU4: *Advanced Electronic Protection Enhancements AEPE*	-	-	15.163	-	15.163	-	-	-	-	Continuing	Continuing
S40: *ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD)*	246.691	270.180	262.211	-	262.211	349.231	394.260	210.580	135.072	Continuing	Continuing

Note

FY13 (+$26,479) To provide for continuation of the Army Integrated Air and Missile Defense (AIAMD) Program and Advanced Electronic Protection Enhancements (AEPE).

A. Mission Description and Budget Item Justification

This system is an integral part of the overall Air and Missile Defense (AMD) architecture and will provide for an incrementally fielded Integrated Air and Missile Defense Fire Control System/capability for the Army Air and Missile Defense Battalions. Funding in this program element provides for the overarching Army Integrated Air and Missile Defense (AIAMD) Architecture and Army IAMD Battle Command System (IBCS) components necessary to produce an AIAMD capability. The AIAMD Program represents a shift from a traditional system-centric weapon systems acquisition to a component-based acquisition. This component-based acquisition will provide the most efficient way to acquire and integrate the components of the incremental AIAMD architecture. Unlike traditional acquisition programs that focus primarily on the development of a single system or platform, the AIAMD Program is structured to enable the development of an overarching system-of-systems capability with participating Air and Missile Defense (AMD) components functioning interdependently to provide total operational capabilities not achievable by the individual element systems. The AIAMD Program achieves this objective by establishing the incremental AIAMD architecture and developing the following products: the IBCS, the Integrated Fire Control Network (IFCN), and the Plug & Fight (P&F) Interface kits. The IBCS provides common Army IAMD Battle Command System (IBCS) Engagement Operations Center (EOC) that replaces seven current weapon system unique Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I) components in an AMD Battalion. The IFCN provides fire control connectivity and enabling distributed operations. A P&F Interface kit enables the multiple sensor and weapon components for netted operations. AIAMD has been designated as the Army's Pathfinder for the development of a Joint Track Management Capability.

The Office of the Secretary of Defense (OSD) Acquisition Decision Memorandum (ADM) directed restructuring the AIAMD program to include AIAMD capability in the following systems: Terminal High Altitude Area Defense (THAAD), Air and Missile Defense Brigades (ADA Bde), Air and Missile Defense Commands (AAMDC), Indirect Fire Protection Capability (IFPC) within IFPC/Avenger Composite Battalions and Air Defense and Airspace Management (ADAM) cells. The restructured program will include two Product Improvements. Product Improvement 1 will include placing Phased Array Tracking to Intercept of Target (PATRIOT) components directly on the Integrated Fire Control Network (IFCN) and employing a common set of C2 tools across Air Defense Artillery (ADA) formations with a First Unit Equipped (FUE) in FY 2019. Product Improvement 2 will integrate THAAD on the IFCN. An IBCS Critical Design Review (CDR) is planned for second quarter FY 2012, along with the contributing programs CDRs. AIAMD CDR is scheduled for third quarter FY 2012. The IBCS prototype is scheduled for delivery to the Government System Integration

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army	DATE: February 2012
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Laboratory (GSIL) in February FY 2012. Modeling and Simulation will be conducted throughout the program. The AIAMD original Acquisition Program Baseline (APB) was approved on 28 June 2010 and is being revised per ADM.

B. Program Change Summary ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	251.124	270.607	250.895	-	250.895
Current President's Budget	246.691	270.180	277.374	-	277.374
Total Adjustments	-4.433	-0.427	26.479	-	26.479
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	4.500	-			
• SBIR/STTR Transfer	-7.470	-			
• Adjustments to Budget Years	-	-	26.479	-	26.479
• Other Adjustments 1	-1.463	-0.427	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army			DATE: February 2012
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COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
DU4: *Advanced Electronic Protection Enhancements AEPE*	-	-	15.163	-	15.163	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The advanced electronic protection (EP) enhancement program funds efforts to assess and initiate development of fixes to the Army's air and missile defense systems vulnerability to digital radio frequency memory (DRFM) deceptive electronic attack (EA). The assessment effort includes both radars and RF data links and will incorporate the latest threat information, comparable work being executed by the other services and conceptual EP solutions. The conceptual solutions will be a combination of direct individual sensor mitigation techniques and multiple sensor network approaches. The tasks are: (1) Conduct individual radar and RF guided missile digital simulations capable of assessing system performance when exposed to current and future deceptive EA techniques. (2) Purchase and modify commercial and military off-the-shelf DRFM injection units to insert actual high fidelity EA signals into the radar's and guided missile's receivers. (3) In conjunction with the Joint Electronic Protection for Air Combat (JEPAC) unit and the Army Research Laboratory's Survivability Assessment Directorate conduct and evaluate field tests of deceptive EA against Army air and missile defense systems. Use results to formulate near term tactics, technique and procedures for immediate fielding and to identify the highest priority areas to concentrate future development efforts. (4) Develop and implement models of Army air and missile defense systems and electronic attack effects to be used to the Extended Air Defense Simulation (EADSIM) for initial assessment of deceptive EA effects on the overall defense capability and potential network-based solutions. (5) Based on the results obtained from the simulations and field tests initiate the development of countermeasure EP techniques for air and missile defense radars and guided missile seekers.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
Title: Advanced Electronic Protection Enhancements	-	-	15.163
Description: Funding is provided for the following effort ***FY 2013 Plans:*** Conducting Threat Assessments and Modeling and Simulation to formulate near term tactics, technique and procedures for immediate fielding and to identify the highest priority areas to concentrate future development efforts.			
Accomplishments/Planned Programs Subtotals	-	-	15.163

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
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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-2A, RDT&E Project Justification: PB 2013 Army			DATE: February 2012
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COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S40: *ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD)*	246.691	270.180	262.211	-	262.211	349.231	394.260	210.580	135.072	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This system is an integral part of the overall Air and Missile Defense (AMD) architecture and will provide for an incrementally fielded Integrated Air and Missile Defense Fire Control System/capability for the Army Air and Missile Defense Battalions. Funding in this program element provides for the overarching Army Integrated Air and Missile Defense (AIAMD) Architecture and Army IAMD Battle Command System (IBCS) components necessary to produce an AIAMD capability. The AIAMD Program represents a shift from a traditional system-centric weapon systems acquisition to a component-based acquisition. This component-based acquisition will provide the most efficient way to acquire and integrate the components of the incremental AIAMD architecture. Unlike traditional acquisition programs that focus primarily on the development of a single system or platform, the AIAMD Program is structured to enable the development of an overarching system-of-systems capability with participating Air and Missile Defense (AMD) components functioning interdependently to provide total operational capabilities not achievable by the individual element systems. The AIAMD Program achieves this objective by establishing the incremental AIAMD architecture and developing the following products: the IBCS, the Integrated Fire Control Network (IFCN), and the Plug & Fight (P&F) Interface kits. The IBCS provides common Army IAMD Battle Command System (IBCS) Engagement Operations Center (EOC) that replaces seven current weapon system unique Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I) components in an AMD Battalion. The IFCN provides fire control connectivity and enabling distributed operations. A P&F Interface kit enables the multiple sensor and weapon components for netted operations. AIAMD has been designated as the Army's Pathfinder for the development of a Joint Track Management Capability.

The Office of the Secretary of Defense (OSD) Acquisition Decision Memorandum (ADM) directed restructuring the AIAMD program to include AIAMD capability in the following systems: Terminal High Altitude Area Defense (THAAD), Air and Missile Defense Brigades (ADA Bde), Air and Missile Defense Commands (AAMDC), Indirect Fire Protection Capability (IFPC) within IFPC/Avenger Composite Battalions and Air Defense and Airspace Management (ADAM) cells. The restructured program will include two Product Improvements. Product Improvement 1 will include placing Phased Array Tracking to Intercept of Target (PATRIOT) components directly on the Integrated Fire Control Network (IFCN) and employing a common set of C2 tools across Air Defense Artillery (ADA) formations with a First Unit Equipped (FUE) in FY 2019. Product Improvement 2 will integrate THAAD on the IFCN. An IBCS Critical Design Review (CDR) is planned for second quarter FY 2012, along with the contributing programs CDRs. AIAMD CDR is scheduled for third quarter FY 2012. The IBCS prototype is scheduled for delivery to the Government System Integration Laboratory (GSIL) in February FY 2012. Modeling and Simulation will be conducted throughout the program. The AIAMD original Acquisition Program Baseline (APB) was approved on 28 June 2010 and is being revised per ADM. Beginning with FY11, this funding was transferred from the Army IAMD PE 0603327A, Project Code S34, to continue funding the Engineering and Manufacturing Development (EMD) phase of the program.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Title: Product Development	225.062	245.821	219.824
Articles:	0	0	

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Description: Funding is provided for the following effort ***FY 2011 Accomplishments:*** Continuing product development for EOC, the common and unique side of the Plug and Fight kits, and the Integrated Fire Control Network. Provides for an IBCS CDR, contributing programs CDRs, and the AIAMD CDR. ***FY 2012 Plans:*** Continuing product development for EOC, the common and unique side of the Plug and Fight kits, and the Integrated Fire Control Network. Provides for a Post CDR Assessment and Defense Acquisition Board In Process Review (DAB IPR), and documentation revisions in support of ADM. ***FY 2013 Plans:*** Continuing product development in support of Prototype Deliveries of EOCs and Plug and Fight kits. Completion of Software Build version 2.0. Risk Reduction test.			
Title: Government Program Management	4.632	5.129	5.642
Articles:	0	0	
Description: Funding is provided for the following effort ***FY 2011 Accomplishments:*** Government Program Management in support of developing the Plug and Fight kits, Integrated Fire Control Network, IBCS CDR, contributing programs CDRs, and the AIAMD CDR. Other contracts and OGAs support of EMD phase activities. ***FY 2012 Plans:*** Government Program Management in support of developing the Plug and Fight kits, Integrated Fire Control Network, Post CDR Assessment and the DAB IPR. Other contracts and OGAs support of EMD phase activities. ***FY 2013 Plans:*** Government Program Management in support of developing the Plug and Fight kits, Integrated Fire Control Network, and Modeling and Simulation. Other contracts and OGAs support of EMD phase activities.			
Title: Test and Evaluation	16.997	19.230	36.745
Articles:	0	0	
Description: Funding is provided for the following effort ***FY 2011 Accomplishments:***			

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Provides for Modeling & Simulation, Joint Interoperability Test Support, Army Evaluation Center/Developmental Test Command/ Operational Test Command support and White Sands Missile Range Test Support			
FY 2012 Plans: Provides for Modeling & Simulation, Joint Interoperability Test Support, Army Evaluation Center/Developmental Test Command/ Operational Test Command support and White Sands Missile Range Test Support			
FY 2013 Plans: Provides for Modeling & Simulation, Joint Interoperability Test Support, Army Evaluation Center/Developmental Test Command/ Operational Test Command support and White Sands Missile Range Test Support			
Accomplishments/Planned Programs Subtotals	246.691	270.180	262.211

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• PE 0604869A, Project M06: *PE 0604869A, Project M06, PATRIOT/ MEADS Combined Aggregate Program (CAP)*	450.584	389.630	400.861		400.861					Continuing	Continuing
• PE 0605456A, Project PA3: *PE 0605456A, Project PA3, PAC- 3/ MSE Missile*	121.475	88.909	69.029		69.029		130.348	63.975	65.771	Continuing	Continuing
• SSN C53101: *SSN C53101, MSE Missile*		74.953	12.850		12.850		505.084	596.387	566.757	Continuing	Continuing
• PE 0102419A, Proj E55: *PE 0102419A, Proj E55, JLENS*	399.477	327.338	190.422		190.422		32.480	24.130	24.612	Continuing	Continuing
• PE 0605455A, Project S35: *PE 0605450A, Project S35, SLAMRAAM*	18.358	1.529								Continuing	Continuing
• BZ5075: *BZ5075, Army IAMD Battle Command System (IBCS)*							103.453	281.828	426.582	Continuing	Continuing
• PE 0604820A, Proj E10: *PE 0604820A, Proj E10, SENTINEL*		2.885	3.486		3.486		1.948	2.972	3.022	Continuing	Continuing

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army			DATE: February 2012
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C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• PE 0604741A, Proj 126, 146, 149: *PE 0604741A, Proj 126, 146, 149, Counter-Rockets, Artillery and Mortar (CRAM)*	139.662	82.932	73.333		73.333		18.058	18.676	20.049	Continuing	Continuing

D. Acquisition Strategy

The Army Integrated Air and Missile Defense (AIAMD) Program will employ an evolutionary acquisition strategy consisting of multiple capability increments with an Increment 2 capability in FY 2016. The AIAMD Program carried two competitive prototyping developmental contractors through an initial Preliminary Design Review (PDR) with a down select after Milestone B (MS B) in December 2009 to conduct the EMD phase.

Each AIAMD capability increment follows the AIAMD Capability Development Document (CDD), JROC approved on 17 May 2010 via JROCM 073-10, and is defined as:
- Increment 1 is a User-executed capability increment focused on realignment of current force systems into an AMD Battalion (BN) organizational construct. (not part of the materiel development program)
- Increment 2 provides the first increment of an integrated materiel solution, and is the initial acquisition program to develop the threshold AIAMD capability

The AIAMD incremental development approach provides the opportunity for technology insertions into the program throughout each increment as high-payoff technologies mature and are ready for integration. This enables an orderly and cost-effective migration from the current system-centric architecture to the AIAMD architecture.

Key principles of the AIAMD acquisition approach are the following:
- Migrate from system-based acquisition to component-based acquisition
- Use system-of-systems acquisition approach with collaboration among AIAMD, PEO MS, PEO C3T, and Brigade Combat Team (BCT) Modernization Component Project Offices, Missile Defense Agency (MDA), and other Service Project Offices to network enable weapons and sensor components
- Develop and procure common Army IAMD Battle Command System (IBCS) Engagement Operations Center (EOC) that replaces seven weapon system unique Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I) components
- Establish product lines used to evaluate and select, modify and integrate modular open systems Hardware (HW) and Software (SW) common configuration items
- Conduct architecture-based System Engineering, Integration and Test (SEI&T) activities for an incremental fielded configuration of the AIAMD Integrated Fire Control (IFC) Network-compatible IBCS EOC, weapons and sensor system components

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 2013 Army			DATE: February 2012
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Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Program Management	TBD	Various:Huntsville, AL	4.632	5.129		5.642		-		5.642	Continuing	Continuing	Continuing
		Subtotal	4.632	5.129		5.642		-		5.642			

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Air Space and Missile Defense (ASMD) System of Systems (SOS) Hardware-in-the- Loop Testbed	C/CPFF	Various:Huntsville, AL and multiple other locations	17.697	-		-		-		-	0.000	17.697	0.000
AIAMD System Engineering & Integration	C/CPFF	Contractor:Huntsville, AL	17.015	18.812		16.155		-		16.155	Continuing	Continuing	Continuing
IAMD Engineering Manufacturing and Development	C/CPIF	Contractor:Huntsville, AL and Various other locations	181.516	211.974		187.212		-		187.212	Continuing	Continuing	Continuing
Government Furnished Equipment	TBD	Various:Multiple	5.705	8.275		7.740		-		7.740	Continuing	Continuing	Continuing
Government Systems Engineering and Logistics	TBD	Various:Huntsville, AL	3.129	6.760		8.717		-		8.717	Continuing	Continuing	Continuing
		Subtotal	225.062	245.821		219.824		-		219.824			

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Army Evaluation Center/ Developmental Test Command/Operational Test Command	TBD	Various:Multiple Locations	0.811	0.894		0.956		-		0.956	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army			DATE: February 2012
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Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Modeling & Sim/Joint Interoperability Test Spt	MIPR	SED:Huntsville, AL	16.061	15.818		31.886		-		31.886	Continuing	Continuing	Continuing
White Sands Missile Range (WSMR)	TBD	WSMR:White Sands, NM	0.125	2.518		3.903		-		3.903	Continuing	Continuing	Continuing
		Subtotal	16.997	19.230		36.745		-		36.745			

	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	246.691	270.180		262.211		-		262.211			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *Development & Demonstration (SDD)*	**R-1 ITEM NOMENCLATURE** PE 0605457A: *Army Integrated Air and Missile Defense (AIAMD)*	**PROJECT** S40: *ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD)*

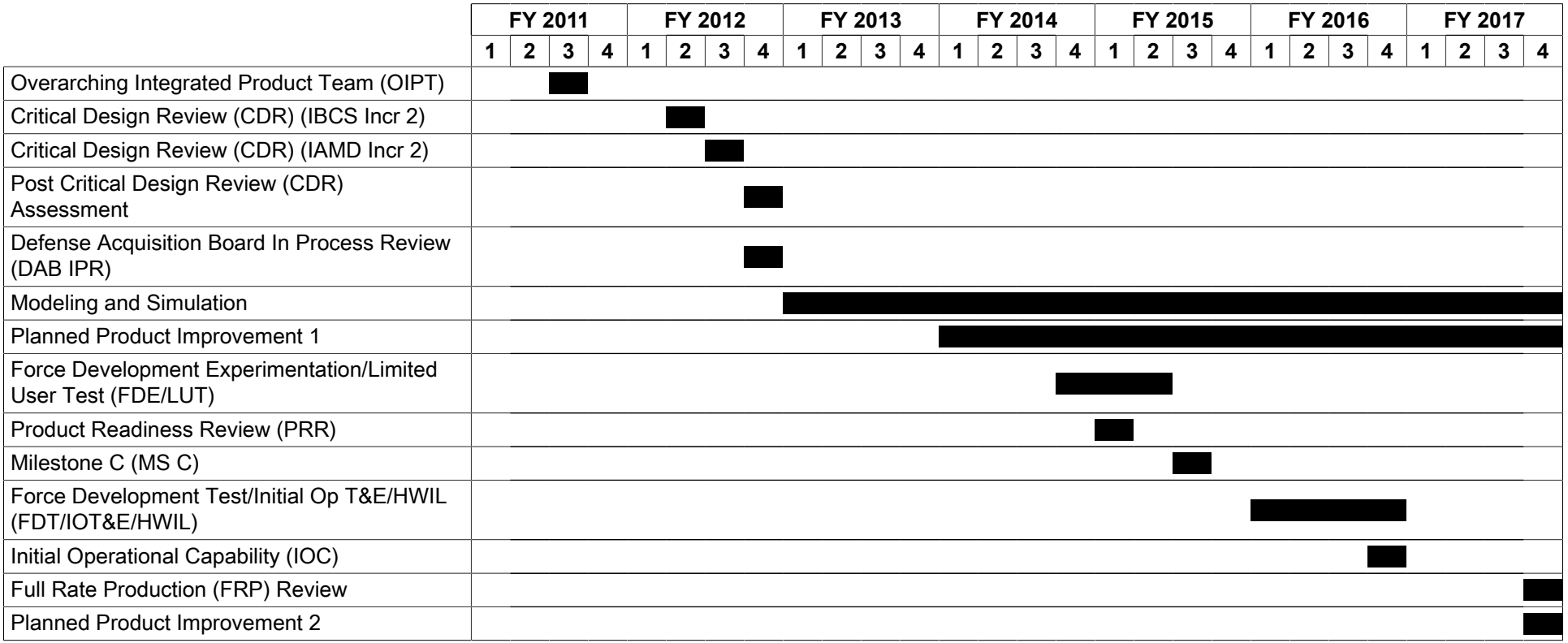

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *Development & Demonstration (SDD)*	**R-1 ITEM NOMENCLATURE** PE 0605457A: *Army Integrated Air and Missile Defense (AIAMD)*	**PROJECT** S40: *ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Overarching Integrated Product Team (OIPT)	3	2011	3	2011
Critical Design Review (CDR) (IBCS Incr 2)	2	2012	2	2012
Critical Design Review (CDR) (IAMD Incr 2)	3	2012	3	2012
Post Critical Design Review (CDR) Assessment	4	2012	4	2012
Defense Acquisition Board In Process Review (DAB IPR)	4	2012	4	2012
Modeling and Simulation	1	2013	4	2017
Planned Product Improvement 1	1	2014	4	2017
Force Development Experimentation/Limited User Test (FDE/LUT)	4	2014	2	2015
Product Readiness Review (PRR)	1	2015	1	2015
Milestone C (MS C)	3	2015	3	2015
Force Development Test/Initial Op T&E/HWIL (FDT/IOT&E/HWIL)	1	2016	4	2016
Initial Operational Capability (IOC)	4	2016	4	2016
Full Rate Production (FRP) Review	4	2017	4	2017
Planned Product Improvement 2	4	2017	4	2017