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

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0604869A: Patriot/MEADS Combined Aggregate Program (CAP)

BA 5: Development & Demonstration (SDD)

•											
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	570.831	467.139	406.605	-	406.605	397.053	-	-	-	Continuing	Continuing
M06: PATRIOT/MEADS COMBINED AGGREGATE PROGRAM (CAP)	570.831	467.139	406.605	-	406.605	397.053	-	-	-	Continuing	Continuing

### 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 composite Army Air and Missile Defense Brigades.

Medium Extended Air Defense System (MEADS) is a tri-national co-development program among the United States, Germany, and Italy to replace the U.S. PATRIOT air defense systems, PATRIOT and HAWK systems in Germany, and NIKE Hercules systems in Italy. Participating countries will sign a Memorandum Of Understanding (MOU) for each successive program phase. The NATO MEADS Management Agency (NAMEADSMA) is the North Atlantic Treaty Organization (NATO) contracting authority providing management of the MEADS program on behalf of the participating nations and is responsible for managing the system acquisition. The U.S. and Italy signed the Design and Development (D&D) MOU on September 24, 2004, and September 27, 2004, respectively. The NAMEADSMA awarded the MEADS D&D letter contract to MEADS International Inc. on September 28, 2004, initiating the MEADS D&D phase. The MOU was amended in March 2005 by the U.S. and Italy to allow the German Parliament additional time for their signature decision and on April 22, 2005 Germany signed the MOU. NAMEADSMA awarded a \$3.4 billion D&D definitized contract to MEADS International Inc. on May 31, 2005. Within the PATRIOT/MEADS Combined Aggregate Program there are two synergistic efforts: an international MEADS development effort managed by NAMEADSMA, and a U.S. effort to inject U.S.-specific capability requirements into the MEADS Major End Items (MEIs).

MEADS is designed to provide joint and coalition forces, critical asset and defended area protection against multiple and simultaneous attacks by short to medium range ballistic missiles, cruise missiles, unmanned aerial vehicles and tactical air-to-surface missiles. MEADS is being developed to have a netted and distributed architecture with modular components to increase survivability and flexibility of employment in a number of operational configurations. The objective MEADS Fire Unit, is designed to be scalable and tailorable to operational requirements, will consist of: two Battle Management Command, Control, Communication, Computers and Intelligence (BMC4I) tactical operations center (TOC), enabling distributed system operations and Beyond-Line-of-Site (BLOS) engagements for maximum protection of supported forces by engaging at longer ranges; six near-vertical launchers capable of transporting and launching up to eight missiles; three launcher reloaders; the PAC-3 Missile Segment Enhancement (MSE); an ultra-high frequency (UHF) Surveillance Radar (SR) that provides 360-degree coverage and near-range to long-range detection of low radar cross-section targets; and two X-band Multifunction Fire Control Radars (MFCR) that provide 360-degree coverage and are designed for high-precision handover to the in-flight missile, discrimination capabilities, and short-range target detection and horizon search.

In addition MEADS, is being developed to provide significant improvements in strategic deployability, transportability, mobility and maneuverability. Its substantially reduced lift requirements enable MEADS to be deployed rapidly with essential combat loads via inter/intra-theater land, sea, and airlift anywhere in the world. MEADS is being developed provide Combatant Commanders with an Air Missile Defense (AMD) system with reduced airlift requirements, thus increasing strategic and tactical

UNCLASSIFIED

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

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0604869A: Patriot/MEADS Combined Aggregate Program (CAP)

BA 5: Development & Demonstration (SDD)

mobility. Further, its decreased size/weight and ability to conduct rapid march order and system emplacement will enhance maneuverability, thereby providing better AMD protection to maneuvering forces.

The PAC-3 system is continuously being improved via hardware and software changes. The latest missile improvement is the MSE and has been accepted as the baseline missile for MEADS. It is being developed by the U.S. for PATRIOT to meet U.S. operational requirements. The MSE will provide a more agile and lethal interceptor that increases the engagement envelope/defended area of PATRIOT and the MEADS systems. The MSE improves upon the current PAC-3 missile capability with a higher performance solid rocket motor, modified lethality enhancer, more responsive control surfaces, upgraded guidance software, and insensitive munitions improvements. PAC-3 is reported under Program Element 0605456A.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	FY 2012 Total
Previous President's Budget	566.215	467.139	408.012	-	408.012
Current President's Budget	570.831	467.139	406.605	-	406.605
Total Adjustments	4.616	-	-1.407	-	-1.407
<ul> <li>Congressional General Reductions</li> </ul>		-			
<ul> <li>Congressional Directed Reductions</li> </ul>		-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>		-			
<ul> <li>Congressional Directed Transfers</li> </ul>		-			
<ul> <li>Reprogrammings</li> </ul>	-	-			
<ul> <li>SBIR/STTR Transfer</li> </ul>	-	-			
<ul> <li>Adjustments to Budget Years</li> </ul>	4.616	-	-1.407	-	-1.407

UNCLASSIFIED

Army Page 2 of 12 R-1 Line Item #121

Exhibit R-2A, RDT&E Project Ju	ıstification: PE	3 2012 Army							DATE: Feb	ruary 2011			
APPROPRIATION/BUDGET ACT 2040: Research, Development, Te BA 5: Development & Demonstrati	est & Evaluation	n, Army		PE 0604869	I <b>OMENCLAT</b> 9A: <i>Patriot/M</i> Program (CA	EADS Com		T FRIOT/MEADS COMBINED GATE PROGRAM (CAP)					
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		
M06: PATRIOT/MEADS COMBINED AGGREGATE PROGRAM (CAP)	570.831	467.139	406.605	-	406.605	397.053	-	-	-	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 composite Army Air and Missile Defense Brigades.

Medium Extended Air Defense System (MEADS) is a tri-national co-development program among the United States, Germany, and Italy to replace the U.S. PATRIOT air defense systems, PATRIOT and HAWK systems in Germany, and NIKE Hercules systems in Italy. Participating countries will sign a Memorandum Of Understanding (MOU) for each successive program phase. The NATO MEADS Management Agency (NAMEADSMA) is the North Atlantic Treaty Organization (NATO) contracting authority providing management of the MEADS program on behalf of the participating nations and is responsible for managing the system acquisition. The U.S. and Italy signed the Design and Development (D&D) MOU on September 24, 2004, and September 27, 2004, respectively. The NAMEADSMA awarded the MEADS D&D letter contract to MEADS International Inc. on September 28, 2004, initiating the MEADS D&D phase. The MOU was amended in March 2005 by the U.S. and Italy to allow the German Parliament additional time for their signature decision and on April 22, 2005 Germany signed the MOU. NAMEADSMA awarded a \$3.4 billion D&D definitized contract to MEADS International Inc. on May 31, 2005. Within the MEADS program there are two synergistic efforts: an international MEADS development effort managed by NAMEADSMA, and a U.S. effort to inject U.S.-specific capability into the MEADS Major End Items (MEIs).

MEADS is designed to provide joint and coalition forces, critical asset and defended area protection against multiple and simultaneous attacks by short to medium range ballistic missiles, cruise missiles, unmanned aerial vehicles and tactical air-to-surface missiles. MEADS is being developed to have a netted and distributed architecture with modular components to increase survivability and flexibility of employment in a number of operational configurations. The objective MEADS Fire Unit, is designed to be scalable and tailorable to operational requirements, will consist of: two Battle Management Command, Control, Communication, Computers and Intelligence (BMC4I) tactical operations center (TOC), enabling distributed system operations and Beyond-Line-of-Site (BLOS) engagements for maximum protection of supported forces by engaging at longer ranges; six near-vertical launchers capable of transporting and launching up to eight missiles; three launcher reloaders; the PAC-3 Missile Segment Enhancement (MSE); an ultra-high frequency (UHF) Surveillance Radar (SR) that provides 360-degree coverage and near-range to long-range detection of low radar cross-section targets; and two X-band Multifunction Fire Control Radars (MFCR) that provide 360-degree coverage and are designed for high-precision handover to the in-flight missile, discrimination capabilities, and short-range target detection and horizon search.

In addition, MEADS is being developed to provide significant improvements in strategic deployability, transportability, mobility and maneuverability. Its substantially reduced lift requirements enable MEADS to be deployed rapidly with essential combat loads via inter/intra-theater land, sea, and airlift anywhere in the world. MEADS is being developed provide Combatant Commanders with an Air Missile Defense (AMD) system with reduced airlift requirements, thus increasing strategic and tactical

Army Page 3 of 12 R-1 Line Item #121

	UNULAUGII ILD				
Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: Fe	bruary 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604869A: Patriot/MEADS Combined Aggregate Program (CAP)		T TRIOT/MEAD GATE PROGE		ס
mobility. Further, its decreased size/weight and ability to condu AMD protection to maneuvering forces.	uct rapid march order and system emplacement will er	nhance mane	uverability, th	ereby providi	ng better
The PAC-3 system is continuously being improved via hardward and has been accepted as the baseline missile for MEADS. It is provide a more agile and lethal interceptor that increases the enthe current PAC-3 missile capability with a higher performance and insensitive munitions improvements. PAC-3 is reported un	s being developed by the U.S. for PATRIOT to meet Ingagement envelope/defended area of PATRIOT and solid rocket motor, modified lethality enhancer, more der Program Element 0605456A.	J.S. operation the MEADS	nal requireme systems. The	nts. The MSI e MSE improv	E will ∕es upon
B. Accomplishments/Planned Programs (\$ in Millions, Article	e Quantities in Each)		FY 2010	FY 2011	FY 2012
Title: Medium Extended Air Defense Missile System (MEADS) D	esign and Development (D&D)	Articles:	413.800 0	393.542 0	340.50
<b>Description:</b> Continue the U.S. contribution to the North Atlantic (NAMEADSMA) International Program Office operational (prime travel) budgets to manage the Design and Development (D&D) Frepresentative MEADS Hardware.	contract) and administrative (support contracts/persor	nnel/			
FY 2010 Accomplishments: U.S. contribution to the North Atlantic Treaty Organization (NATO Program Office operational (prime contract) and administrative (s and Development (D&D) Phase Contract to design, build, test an	support contracts/personnel/travel) budgets to manage	e the Design			
FY 2011 Plans: Continue the U.S. contribution to the North Atlantic Treaty Organ International Program Office operational (prime contract) and admanage the Design and Development (D&D) Phase Contract to MEADS Hardware.	ministrative (support contracts/personnel/travel) budge	ets to			
FY 2012 Plans: Continue the U.S. contribution to the North Atlantic Treaty Organ International Program Office operational (prime contract) and admanage the Design and Development (D&D) Phase Contract to MEADS Hardware.	ministrative (support contracts/personnel/travel) budge	ets to			
Title: MEADS Design and Development Program Integration			59.145	47.509	42.51
· · · · ·		Articles:	0	0	

**UNCLASSIFIED** 

Army Page 4 of 12 R-1 Line Item #121

	ONOE/ (OOII IEB				
Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: Fe	bruary 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604869A: Patriot/MEADS Combined Aggregate Program (CAP)		T TRIOT/MEAD GATE PROGE		D
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)		FY 2010	FY 2011	FY 2012
<b>Description:</b> Implement program integration efforts to support tra MEADS capability.	nsition from PATRIOT to development and fielding of	the US			
FY 2010 Accomplishments: Implement program integration efforts to support transition from P capability. This includes assessment of performance against US management of US MEADS programs to address unique US required. MEADS testbed, US MEADS sensor performance upgrades; PAC efforts (required material release certifications, planning for US M efforts).	Threat and to identify gaps / shortfalls; development a uirements; MEADS-IBCS compatibility; development of C-3 CRI compatibility; and US MEADS Production and	and of a US I Fielding			
FY 2011 Plans: Continue to implement program integration efforts to support trans MEADS capability. Assessment of performance against US Three US MEADS programs to address unique US requirements; MEAD US MEADS sensor performance upgrades; PAC-3 CRI compatible material release certifications, planning for US MEADS IOT&E, ar	at. Identify gaps / shortfalls; development and manag OS-IBCS compatibility; development of a US MEADS lity; and US MEADS Production and Fielding efforts (	ement of testbed, required			
FY 2012 Plans: Continue to implement program integration efforts to support trans MEADS capability. Assessment of performance against US Three		ne US			
Title: National and International Program Office Support		Articles:	14.311 0	8.588 0	12.808
<b>Description:</b> Management, support and salaries for the MEADS I	National and International program offices.				
FY 2010 Accomplishments:  Management, support and salaries for the MEADS National and I	nternational program offices.				
FY 2011 Plans: Continue management, support and salaries for the MEADS Nation	onal and International program offices.				
FY 2012 Plans: Continue management, support and salaries for the MEADS Nation	onal and International program offices.				
Title: MEADS US Only Efforts		Articles:	67.721 0	17.500 0	10.786

**UNCLASSIFIED** 

Army Page 5 of 12 R-1 Line Item #121

			UNCLAS							
ication: PB	2012 Army							DATE: Feb	ruary 2011	
<b>ΓY</b> & Evaluation (SDD)	, Army	F	PE 0604869/	A: Patriot/MI	EADS Comb	ined	M06: <i>PA</i> 7	RIOT/MEADS		)
rams (\$ in I	Millions, Art	icle Quantit	ies in Each)	)				FY 2010	FY 2011	FY 2012
ort Exciter a	nd Exportabl	e Missile Mo	del							
citer and Ex	portable Mis	sile Model.								
d Exportable	e Missile Mo	del.								
d Exportable	e Missile Mo	del.								
iness						A	Articles:	15.854 0	-	-
/ Small Busi	ness Techno	ology Transf	er Programs	·						
			Accon	nplishments	s/Planned P	rograms Sເ	ubtotals	570.831	467.139	406.605
ry (\$ in Milli	ons)									
EV 2040	EV 2044				EV 2042	EV 2044	EV 204	IE EV 2040		
<u>F1 2010</u>	62.500	83.777	000	83.777	<u>F1 2013</u>	68.938				
		88.993		88.993		532.540	487.04	19 560.099	Continuing	Continuing
247 422	272 402	244 655		244 655		E0 101	10.7	17 40 706	Continuina	Continuing
311.132	312.493	344.000		344.005					_	_
56.441						301.100	101.00	7.0.000	·	Continuing
	23.700	18.763		18.763					_	Continuing
	Exeluation (SDD)  rams (\$ in I ort Exciter and Exciter and Exportable iness ive Research / Small Busing (\$ in Milling FY 2010	R Evaluation, Army (SDD)  rams (\$ in Millions, Art ort Exciter and Exportable citer and Exportable Missile Mo d Exportable Missile Mo iness ive Research / Small Bu / Small Business Technol ry (\$ in Millions)  FY 2010 FY 2011 62.500  317.132 372.493	Evaluation, Army (SDD)  rams (\$ in Millions, Article Quantity ort Exciter and Exportable Missile Model.  dieter and Exportable Missile Model.  iness  ive Research / Small Business Technology Transferty (\$ in Millions)  FY 2012  Base 62.500  83.777  88.993  317.132  372.493  344.655	ication: PB 2012 Army (SDD)  R-1 ITEM NO PE 0604869/ Aggregate Pi  rams (\$ in Millions, Article Quantities in Each) ort Exciter and Exportable Missile Model citer and Exportable Missile Model. d Exportable Missile Model. d Exportable Missile Model. iness ive Research / Small Business Technology Transfer Programs Accon (Y (\$ in Millions)  FY 2012 FY 2010 FY 2011 Base OCO 62.500 83.777 88.993  317.132 372.493 344.655	R-1 ITEM NOMENCLATI RE Valuation, Army (SDD)  Rams (\$ in Millions, Article Quantities in Each)  Per 1 (Superior of Exciter and Exportable Missile Model  Rectiter and Exportable Missile Model.  Rectiter and	R-1 ITEM NOMENCLATURE PE 0604869A: Patriot/MEADS Combination (SDD)  rams (\$ in Millions, Article Quantities in Each)  ort Exciter and Exportable Missile Model  citer and Exportable Missile Model.  d Exportable Missile Model.  d Exportable Missile Model.  iness  ive Research / Small Business Technology Transfer Program  / Small Business Technology Transfer Programs  Accomplishments/Planned P  ry (\$ in Millions)  FY 2012 FY 2012 FY 2012  FY 2010 FY 2011 Base OCO Total FY 2013  62.500 83.777  88.993 88.993  317.132 372.493 344.655 344.655	R-1 ITEM NOMENCLATURE REvaluation, Army (SDD)  R-1 ITEM NOMENCLATURE PE 0604869A: Patriot/MEADS Combined Aggregate Program (CAP)  rams (\$ in Millions, Article Quantities in Each) ort Exciter and Exportable Missile Model  citer and Exportable Missile Model.  d Exportable Missile Model.  d Exportable Missile Model.  iness  // Small Business Technology Transfer Program  // Small Business Technology Transfer Programs  Accomplishments/Planned Programs Surv.  (\$ in Millions)  FY 2012 FY 2012 FY 2012 FY 2010 FY 2011 Base OCO Total FY 2013 FY 2014 62.500 83.777 83.777 68.938  88.993 88.993 532.540  317.132 372.493 344.655 344.655 58.124  501.459	R-1   TEM NOMENCLATURE   PROJECT   R-2   PROJECT   PE 0604869A: Patriot/MEADS Combined   Aggregate Program (CAP)   Aggre	Part   Part	DATE: February 2011   PROJECT   PROJECT   PE 0604869A: Patriot/MEADS Combined   Aggregate Program (CAP)   Aggregate Program (CAP)   PROJECT   M06: PATRIOT/MEADS COMBINET   AGGREGATE PROGRAM (CAP)   Aggregate Program (CAP)   Prams (\$ in Millions, Article Quantities in Each   Program (CAP)   Program (

**UNCLASSIFIED** 

Page 6 of 12 R-1 Line Item #121

APPROPRIATION/BUDGET ACTIVITY   2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)   Aggregate Program (CAP)   AGGREGATE PROGRAM (CAP)	Exhibit R-2A, RDT&E Project Justifi	cation: PB	2012 Army							DATE: Febr	uary 2011	
C. Other Program Funding Summary (\$ in Millions)  Line Item FY 2010 FY 2011 Base OCO Total FY 2013 FY 2014 FY 2015 FY 2016 Complete Total C	2040: Research, Development, Test &	Evaluation,	ined	M06: PATRIO	-		)					
Line Item	<u> </u>	,	ons)		33 3	<u> </u>	,		1		,	
Line Item PE 0605455A: PE 0605455A Proj S35 SLAMRAAM SSN C81002: SSN C81002 SLAMRAAM Launcher SSN C81004: SSN C81004 SLAMRAAM Missile PE 0603305A: PE 0603305A PPE 0603305A: PE 0603305A PRE 0603305A PRE 0603305A: PE 0603305A PRE 0603305A PR	<u> </u>	<b>,</b> (+	<u>,</u>	FY 2012	FY 2012	FY 2012					Cost To	
\$35 \$LAMRAAM	<u>Line Item</u>	FY 2010	FY 2011				FY 2013	FY 2014	FY 2015	FY 2016		<b>Total Cost</b>
* SSN C81002: SSN C81002 116.732 Continuing Continuing SLAMRAAM Launcher * SSN C81004: SSN C81004 * SLAMRAAM Missile * PE 0603305A: PE 0603305A	• PE 0605455A: <i>PE 0605455A Proj</i>										-	
SLAMRAAM Launcher  • SSN C81004: SSN C81004 SLAMRAAM Missile  • PE 0603305A: PE 0603305A  • PE 0603305A: PE 0603305A  • PO 0603305A: PE 0603305A  • PE 0603305A: PE 0603305A  • PE 0603305A: PE 0603305A  • SSN WK5053: SSN WK5053  • PE 0603327A: PE 0603327A  • PE 0603327A: PE 0603327A  • PE 0603327A: PE 0605457A  • PE 0605457A: PE 0605457A  • SSN BZ5075: SSN BZ5075 Army Integrated Air and Missile Defense (AIAMD)  • SSN BZ5075: SSN BZ5075 Army Integrated System (IBCS)	S35 SLAMRAAM											
• SSN C81004: SSN C81004 SLAMRAAM Missile • PE 0603305A: PE 0603305A	• SSN C81002: SSN C81002		116.732								Continuing	Continuing
SLAMRAAM Missile  • PE 0603305A: PE 0603305A  • PE 0603305A: PE 0603305A  Proj TR7, Protection Capability II - Intercept  • SSN WK5053: SSN WK5053  • PE 0603327A: PE 0603327A  • PE 0603327A: PE 0603327A  Proj S34, AMD System of System  Engineering and Integration  • PE 0605457A: PE 0605457A  PE 0605457A: PE 0605457A  SSN WK5053: SSN WK5053  • PE 0605457A: PE 0605457A  PSSN WK5053: SSN WK5053  • PE 0605457A: PE 0603327A  • PE 0605457A: PE 0605457A  • PE 0605457A: PE 0603327A  • PE 0605457A: PE 0605457A  • PE 0605457A: PE 0605457A	SLAMRAAM Launcher											
• PE 0603305A: PE 0603305A	• SSN C81004: <i>SSN C81004</i>											
Proj TR7, Protection Capability II - Intercept         • SSN WK5053: SSN WK5053       91.467       7.958       7.958       Continuing Cont	SLAMRAAM Missile											
Intercept  SSN WK5053: SSN WK5053  PE 0603327A: PE 0603327A  PE 0603327A: PE 0603327A  Proj S34, AMD System of System Engineering and Integration  PE 0605457A: PE 0605457A  PE 0605457A: PE 0605457A  SSN BZ5075: SSN BZ5075 Army IAMD Battle Command System (IBCS)  Continuing Co	• PE 0603305A: <i>PE 0603305A</i>		4.296	7.958		7.958		89.021	92.999	142.738	Continuing	Continuing
• SSN WK5053: SSN WK5053 91.467 7.958 7.958 Continuing Continuing FAAD GBS  • PE 0603327A: PE 0603327A 164.719 Continuing	Proj TR7, Protection Capability II -											
FAAD GBS  • PE 0603327A: PE 0603327A  164.719  Continuing Continui	•											
• PE 0603327A: PE 0603327A 164.719  Proj S34, AMD System of System Engineering and Integration • PE 0605457A: PE 0605457A 251.124 254.745 254.745 346.341 298.869 275.651 Continuing Continuing Proj S40, Army Imtegrated Air and Missile Defense (AIAMD) • SSN BZ5075: SSN BZ5075 Army IAMD Battle Command System (IBCS)	• SSN WK5053: SSN WK5053		91.467	7.958		7.958					Continuing	Continuing
Proj S34, AMD System of System         Engineering and Integration         • PE 0605457A: PE 0605457A       251.124       254.745       346.341       298.869       275.651       Continuing Cont												
Engineering and Integration  • PE 0605457A: PE 0605457A  251.124 254.745 254.745 346.341 298.869 275.651 Continuing Conti		164.719									Continuing	Continuing
• PE 0605457A: PE 0605457A 251.124 254.745 254.745 346.341 298.869 275.651 Continuing Continuing Continuing Subject of the Proj S40, Army Imtegrated Air and Missile Defense (AIAMD) • SSN BZ5075: SSN BZ5075 Army IAMD Battle Command System (IBCS)												
Proj S40, Army Imtegrated Air and Missile Defense (AIAMD)  • SSN BZ5075: SSN BZ5075 Army IAMD Battle Command System (IBCS)												
Missile Defense (AIAMD)  • SSN BZ5075: SSN BZ5075 Army  IAMD Battle Command System  (IBCS)			251.124	254.745		254.745		346.341	298.869	275.651	Continuing	Continuing
• SSN BZ5075: SSN BZ5075 Army  IAMD Battle Command System (IBCS)  23.587 100.560 256.855 Continuing	• •											
IAMD Battle Command System (IBCS)	,											
(IBCS)								23.587	100.560	256.855	Continuing	Continuing
• PE 0208053: PE 0208053 Proj 13.189 12.403 27.630 27.630 14.109 7.912 8.039 Continuing Continu	` '											
,	•	13.189	12.403	27.630		27.630		14.109	7.912	8.039	Continuing	Continuing
635, JOINT TACT GRD STATION-												
P31 (MIP)												
• SSN BZ8401: SSN BZ8401 Joint 6.682 9.279 1.199 1.199 9.740 4.432 4.496 Continuing Continu		6.682	9.279	1.199		1.199		9.740	4.432	4.496	Continuing	Continuing
Tactical Ground Station (JTAGS)	• • • • • • • • • • • • • • • • • • • •											_
• PE 0604820A: <i>PE 0604820A Proj</i> 2.721 2.721 1.983 1.968 2.937 Continuing Continuing	-			2.721		2.721		1.983	1.968	2.937	Continuing	Continuing
E10, SENTINEL	E10, SENTINEL											
D. Acquisition Strategy	D. Acquisition Strategy											

# **UNCLASSIFIED**

On 1 July 2004, the Defense Acquisition Board approved the Acquisition Strategy (AS) for the PATRIOT/MEADS CAP Milestone B. On 6 April 2006, the Lower Tier Project Manager submitted a Program Deviation Report (PDR) to notify the Under Secretary of Defense for Acquisition, Technology, and Logistics, of changes affecting

the 6 August 2004, approved PATRIOT/MEADS CAP Acquisition Program Baseline (APB). On 9 February 2006, the Army System Acquisition Review Council

Page 7 of 12 R-1 Line Item #121

	UNCLASSIFIED	
Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
2040: Research, Development, Test & Evaluation, Army	PE 0604869A: Patriot/MEADS Combined	M06: PATRIOT/MEADS COMBINED
BA 5: Development & Demonstration (SDD)	Aggregate Program (CAP)	AGGREGATE PROGRAM (CAP)
(ASARC) approved establishment of the Integrated Air and Miss 2006, the Army established the IAMD PO which will manage the Network-Centric, Component-Based (Plug and Fight) architectu to reflect these changes.  E. Performance Metrics  Performance metrics used in the preparation of this justification.	e U.S. Army's initiatives to implement the user's opera ire. The PATRIOT/MEADS CAP Acquisition Program	tional concept from a System-Centric focus to a Baseline and Acquisition Strategy will be modified
Performance metrics used in the preparation of this justification	material may be found in the FY 2010 Army Performa	ance Budget Justification Book, dated May 2010.

Page 8 of 12 R-1 Line Item #121 Army

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604869A: Patriot/MEADS Combined

Aggregate Program (CAP)

**DATE:** February 2011

PROJECT

M06: PATRIOT/MEADS COMBINED AGGREGATE PROGRAM (CAP)

Management Services (	\$ in Millio	ns)		FY 2	2011	FY 2 Ba	-		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
International Operating	Various	NAMEADSMA:Huntsville	21.815	8.588		9.102		-		9.102	Continuing	Continuing	Continuing
Gov't Program Services/Mgmt	Various	Lower Tier Project Office:Huntsville, AL	-	1.500		1.500		-		1.500	Continuing	Continuing	0.000
		Subtotal	21.815	10.088		10.602		-		10.602			

Product Development (	\$ in Millio	ns)		FY 2	2011	FY 2 Ba	2012  se		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Design and Development	Various	NAMEADSMA:Huntsville AL	741.500	388.700		340.500		-		340.500	Continuing	Continuing	Continuing
Missile Segment Enhancement - Lockheed Martin Missiles and Fire Control (LMMFC)	SS/CPIF	LMMFC:Dallas, TX	100.800	-		-		-		-	0.000	100.800	0.000
Missile Segment Enhancement (MSE) /PAC-3- Raytheon	SS/FP	Raytheon:Boston, MA	42.730	-		-		-		-	0.000	42.730	0.000
Program Integration	Various	Various:Huntsville, AL	101.674	19.914		19.361		-		19.361	Continuing	Continuing	Continuing
U.S. Only Security / Exciter	SS/CPFF	Lockheed Martin:Syracuse, NY; Dallas, TX & Orlando, FL	47.825	17.500		10.786		-		10.786	Continuing	Continuing	Continuing
Product Development Support	Various	Program Office:Huntsville, AL	33.693	6.818		6.406		-		6.406	Continuing	Continuing	Continuing
International Program Office	Various	NAMEADSMA:Huntsville AL	' 12.477	4.842		5.418		-		5.418	Continuing	Continuing	Continuing
U. S. Other Government Agencies (OGA's)	Various	Various:Huntsville, AL	23.914	6.187		5.132		-		5.132	Continuing	Continuing	Continuing
U.S. Only Combined Aggregate Program (CAP)	Various	Various:Huntsville, AL & Dallas, TX	67.150	-		-		-		-	Continuing	Continuing	Continuing

#### Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army DATE: February 2011 APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** 2040: Research, Development, Test & Evaluation, Army PE 0604869A: Patriot/MEADS Combined M06: PATRIOT/MEADS COMBINED BA 5: Development & Demonstration (SDD) Aggregate Program (CAP) AGGREGATE PROGRAM (CAP) FY 2012 FY 2012 FY 2012 **Product Development (\$ in Millions)** oco FY 2011 Base Total **Total Prior** Contract Target Method Performing Years Award Award Award Cost To Value of **Cost Category Item** Cost Date Date Contract & Type **Activity & Location** Cost Cost Cost Date Cost Complete **Total Cost** Systems Engineering Various AMRDEC:Huntsville, AL 22.567 4.100 3.200 3.200 Continuing Continuina Continuing U.S. Contracts Various Various:Huntsville, AL 8 990 5 200 5.200 Continuing 43.126 Continuing Continuing Design and Development Government Furnished Various TACOM:Warren, MI 14.087 Continuing Continuing Continuina Equipment (GFE) Procurement Efforts Subtotal 1.251.543 457.051 396.003 396.003 FY 2012 FY 2012 FY 2012 Test and Evaluation (\$ in Millions) FY 2011 Base oco Total Contract **Total Prior** Target Method Performing Years Award Award Award Cost To Value of **Cost Category Item** & Type Cost Cost Cost Total Cost **Activity & Location** Cost Date Date Date Cost Complete Contract WSMR:White Sands, Range Support/Facilities Various 9.500 Continuing Continuing Continuing NM; Ft Wingate Targets/Threat Simulators Continuing Continuing Various Various: Huntsville, AL 35.400 Continuing Contractor Test & Evaluation Various Various: Huntsville, AL Continuing Continuing Continuing AMRDEC:Huntsville, AL **OGA Test and Evaluation** Various 8.000 Continuing Continuina Continuina Subtotal 52.900 \_ \_ **Total Prior** Target

Remarks

FY 2011

467.139

Years

Cost

**Project Cost Totals** 

1.326.258

Page 10 of 12 R-1 Line Item #121

FY 2012

**Base** 

406.605

FY 2012

oco

FY 2012

Total

406.605

Cost To

Complete

**Total Cost** 

Value of

Contract

		FY	201	0		FY	201	1		FY	201	2		FY 2	2013	3		FY 2	2014	ļ		FY 2	2015	5		FY 2	2016	;
	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
PDB 6.5 Fielding										•	•																	
MEADS System CDR: Critical Design Review																												

Army Page 11 of 12 R-1 Line Item #121

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Army **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

2040: Research, Development, Test & Evaluation, Army PE 0604869A: Patriot/MEADS Combined M06: PATRIOT/MEADS COMBINED BA 5: Development & Demonstration (SDD) Aggregate Program (CAP) AGGREGATE PROGRAM (CAP)

## Schedule Details

	Sta	art	E	nd
Events	Quarter	Year	Quarter	Year
PDB 6.5 Fielding	3	2010	3	2010
MEADS System CDR: Critical Design Review	3	2010	3	2010

Page 12 of 12 R-1 Line Item #121 Army