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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				PE 0604869A: <i>Patriot/MEADS Combined Aggregate Program (CAP)</i>							
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: <i>PATRIOT/MEADS COMBINED AGGREGATE PROGRAM (CAP)</i>	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

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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	FY 2012 Base	FY 2012 OCO	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
• Congressional General Reductions			-			
• Congressional Directed Reductions			-			
• Congressional Rescissions		-	-			
• Congressional Adds			-			
• Congressional Directed Transfers			-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-	-			
• Adjustments to Budget Years		4.616	-	-1.407	-	-1.407

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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 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604869A: Patriot/MEADS Combined Aggregate Program (CAP)				PROJECT M06: PATRIOT/MEADS COMBINED AGGREGATE 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

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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

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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)	PROJECT M06: PATRIOT/MEADS COMBINED AGGREGATE PROGRAM (CAP)		
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 Missile Segment Enhancement (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 software, and insensitive munitions improvements. PAC-3 is reported under Program Element 0605456A.					
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2010	FY 2011	FY 2012
Title: Medium Extended Air Defense Missile System (MEADS) Design and Development (D&D) Articles:			413.800	393.542	340.500
			0	0	
Description: Continue the U.S. contribution to the North Atlantic Treaty Organization (NATO) MEADS Management Agency (NAMEADSMA) International Program Office operational (prime contract) and administrative (support contracts/personnel/travel) budgets to manage the Design and Development (D&D) Phase Contract to design, build, test and evaluate the production representative MEADS Hardware.					
FY 2010 Accomplishments: U.S. contribution to the North Atlantic Treaty Organization (NATO) MEADS Management Agency (NAMEADSMA) International Program Office operational (prime contract) and administrative (support contracts/personnel/travel) budgets to manage the Design and Development (D&D) Phase Contract to design, build, test and evaluate the production representative MEADS Hardware.					
FY 2011 Plans: Continue the U.S. contribution to the North Atlantic Treaty Organization (NATO) MEADS Management Agency (NAMEADSMA) International Program Office operational (prime contract) and administrative (support contracts/personnel/travel) budgets to manage the Design and Development (D&D) Phase Contract to design, build, test and evaluate the production representative MEADS Hardware.					
FY 2012 Plans: Continue the U.S. contribution to the North Atlantic Treaty Organization (NATO) MEADS Management Agency (NAMEADSMA) International Program Office operational (prime contract) and administrative (support contracts/personnel/travel) budgets to manage the Design and Development (D&D) Phase Contract to design, build, test and evaluate the production representative MEADS Hardware.					
Title: MEADS Design and Development Program Integration Articles:			59.145	47.509	42.511
			0	0	

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2010	FY 2011	FY 2012
<p>Description: Implement program integration efforts to support transition from PATRIOT to development and fielding of the US MEADS capability.</p> <p>FY 2010 Accomplishments: Implement program integration efforts to support transition from PATRIOT to development and fielding of the US MEADS capability. This includes assessment of performance against US Threat and to identify gaps / shortfalls; development and management of US MEADS programs to address unique US requirements; MEADS-IBCS compatibility; development of a US MEADS testbed, US MEADS sensor performance upgrades; PAC-3 CRI compatibility; and US MEADS Production and Fielding efforts (required materiel release certifications, planning for US MEADS IOT&E, and required US logistics facilitization and training efforts).</p> <p>FY 2011 Plans: Continue to implement program integration efforts to support transition from PATRIOT to development and fielding of the US MEADS capability. Assessment of performance against US Threat. Identify gaps / shortfalls; development and management of US MEADS programs to address unique US requirements; MEADS-IBCS compatibility; development of a US MEADS testbed, US MEADS sensor performance upgrades; PAC-3 CRI compatibility; and US MEADS Production and Fielding efforts (required materiel release certifications, planning for US MEADS IOT&E, and required US logistics facilitization and training efforts).</p> <p>FY 2012 Plans: Continue to implement program integration efforts to support transition from PATRIOT to development and fielding of the US MEADS capability. Assessment of performance against US Threat.</p>					
<p>Title: National and International Program Office Support</p> <p align="right">Articles:</p> <p>Description: Management, support and salaries for the MEADS National and International program offices.</p> <p>FY 2010 Accomplishments: Management, support and salaries for the MEADS National and International program offices.</p> <p>FY 2011 Plans: Continue management, support and salaries for the MEADS National and International program offices.</p> <p>FY 2012 Plans: Continue management, support and salaries for the MEADS National and International program offices.</p>			14.311 0	8.588 0	12.808
<p>Title: MEADS US Only Efforts</p> <p align="right">Articles:</p>			67.721 0	17.500 0	10.786

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2010	FY 2011	FY 2012
Description: US only efforts to support Exciter and Exportable Missile Model											
FY 2010 Accomplishments: Provide US only efforts to support Exciter and Exportable Missile Model.											
FY 2011 Plans: Continue US Exciter support effort and Exportable Missile Model.											
FY 2012 Plans: Continue US Exciter support effort and Exportable Missile Model.											
Title: Innovative Research/Small Business Articles:									15.854 0	-	-
Description: Small Business Innovative Research / Small Business Technology Transfer Program											
FY 2010 Accomplishments: Small Business Innovative Research / Small Business Technology Transfer Programs											
Accomplishments/Planned Programs Subtotals									570.831	467.139	406.605
C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• PE 0605456A: PE 0605456A Proj PA3, PAC-3/MSE Missile		62.500	83.777		83.777		68.938	63.468	64.215	Continuing	Continuing
• SSN C53101: SSN C53101 MSE Missile			88.993		88.993		532.540	487.049	560.099	Continuing	Continuing
• SSN C53201: SSN C53201 PATRIOT/MEADS GSE											
• PE 0102419A: PE 0102419A Proj E55, JLENS	317.132	372.493	344.655		344.655		58.124	19.717	19.726	Continuing	Continuing
• SSN BZ0525: SSN BZ0525 JLENS Production							501.459	454.966	416.888	Continuing	Continuing
• PE 0604802A: PE 0604802A Proj S23, SLAMRAAM	56.441									Continuing	Continuing
		23.700	18.763		18.763					Continuing	Continuing

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C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• PE 0605455A: PE 0605455A Proj S35 SLAMRAAM												
• SSN C81002: SSN C81002 SLAMRAAM Launcher		116.732								Continuing	Continuing	
• SSN C81004: SSN C81004 SLAMRAAM Missile												
• PE 0603305A: PE 0603305A Proj TR7, Protection Capability II - Intercept		4.296	7.958		7.958		89.021	92.999	142.738	Continuing	Continuing	
• SSN WK5053: SSN WK5053 FAAD GBS		91.467	7.958		7.958					Continuing	Continuing	
• PE 0603327A: PE 0603327A Proj S34, AMD System of System Engineering and Integration	164.719									Continuing	Continuing	
• PE 0605457A: PE 0605457A Proj S40, Army Imtegrated Air and Missile Defense (AIAMD)		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	Continuing	
• PE 0208053: PE 0208053 Proj 635, JOINT TACT GRD STATION- P31 (MIP)	13.189	12.403	27.630		27.630		14.109	7.912	8.039	Continuing	Continuing	
• SSN BZ8401: SSN BZ8401 Joint Tactical Ground Station (JTGS)	6.682	9.279	1.199		1.199		9.740	4.432	4.496	Continuing	Continuing	
• PE 0604820A: PE 0604820A Proj E10, SENTINEL			2.721		2.721		1.983	1.968	2.937	Continuing	Continuing	
D. Acquisition Strategy												
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												

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<p>(ASARC) approved establishment of the Integrated Air and Missile Defense (IAMD) Project Office (PO) to lead development efforts for the Army IAMD. On 8 May 2006, the Army established the IAMD PO which will manage the U.S. Army's initiatives to implement the user's operational concept from a System-Centric focus to a Network-Centric, Component-Based (Plug and Fight) architecture. The PATRIOT/MEADS CAP Acquisition Program Baseline and Acquisition Strategy will be modified to reflect these changes.</p> <p><u>E. Performance Metrics</u></p> <p>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.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army											DATE: February 2011		
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Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		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, AL	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 Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		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

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army											DATE: February 2011			
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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		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	
Systems Engineering	Various	AMRDEC:Huntsville, AL	22.567	4.100		3.200		-		3.200	Continuing	Continuing	Continuing	
U.S. Contracts	Various	Various:Huntsville, AL	43.126	8.990		5.200		-		5.200	Continuing	Continuing	Continuing	
Design and Development Government Furnished Equipment (GFE) Procurement Efforts	Various	TACOM:Warren, MI	14.087	-		-		-		-	Continuing	Continuing	Continuing	
Subtotal			1,251.543	457.051		396.003		-		396.003				
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		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	
Range Support/Facilities	Various	WSMR:White Sands, NM; Ft Wingate	9.500	-		-		-		-	Continuing	Continuing	Continuing	
Targets/Threat Simulators	Various	Various:Huntsville, AL	35.400	-		-		-		-	Continuing	Continuing	Continuing	
Contractor Test & Evaluation	Various	Various:Huntsville, AL	-	-		-		-		-	Continuing	Continuing	Continuing	
OGA Test and Evaluation	Various	AMRDEC:Huntsville, AL	8.000	-		-		-		-	Continuing	Continuing	Continuing	
Subtotal			52.900	-		-		-		-				
			Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			1,326.258	467.139		406.605		-		406.605				
Remarks														

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Army															DATE: February 2011														
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	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 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																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Army			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604869A: <i>Patriot/MEADS Combined Aggregate Program (CAP)</i>	PROJECT M06: <i>PATRIOT/MEADS COMBINED AGGREGATE PROGRAM (CAP)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
PDB 6.5 Fielding	3	2010	3	2010
MEADS System CDR: Critical Design Review	3	2010	3	2010