

**UNCLASSIFIED**

<b>Missile Defense Agency (MDA) Exhibit R-2 RDT&amp;E Budget Item Justification</b>	Date <b>May 2009</b>
---	-------------------------

<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>RDT&amp;E, DW/04 Advanced Component Development and Prototypes (ACD&amp;P)</b>	<b>R-1 NOMENCLATURE</b> <b>0603908C BMD Europ Intercep Site</b>
---	--

COST (\$ in Thousands)	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Total PE Cost	0	362,007	0					
DX48 European Capability Block 4	0	362,007	0					

*Funding for European Interceptor Site construction in FY08 and FY09 previously captured in the Midcourse PE RDT&E budget exhibits is now explained in MDA Military Construction (MILCON) DD Forms 1390/1391.*

**A. Mission Description and Budget Item Justification**

**A.1 System Element Description**

The European Capability Block 4 RDT&E program (Project DX48) expands the Ballistic Missile Defense System (BMDS) capability to defend allies and deployed forces in Europe from limited Iranian long-range threats by establishing both an Interceptor Site and a Midcourse Radar site in Europe. The European Interceptor Site (EIS) is planned as a United States (U.S.) facility on foreign soil, supported by a European Midcourse Radar (EMR), also planned as a United States (US) facility in Europe. Both the EIS and EMR will interface with US command and control nodes in Europe through upgrades to US communications at Ramstein Air Force Base Europe. The Command & Control communications interface upgrade in Europe is known as the European Communications System (ECS).

The European Interceptor Site (EIS) will establish, operate, and maintain the following major components:

- Ten (10) Ground Based Interceptors (Two-Stage)
- Ten (10) Interceptor silos and ten (10) Silo Interface Vaults capable of supporting Interceptors and Launch Support Equipment (LSE) that interfaces with on-site Command Launch Equipment (CLE).
- A Re-locatable IFICS Data Terminal (RIDT) capable of sending in-flight target updates to and receiving in-flight status reports from Interceptors launched from the EIS.
- The Ballistic Missile Defense System (BMDS) Communications System Complex (BCSC) in support of the European Interceptor Site (EIS) consolidates all of the communications systems in one facility: Satellite Communication (SATCOM), Defense Information Systems Network (DISN) core, campus communications (includes the Defense Systems Network (DSN), Secret Internet Protocol Router Network (SIPRNET), Non-Secure Internet Protocol Router Network (NIPRNET) to include Video Teleconferencing Internet Protocol (VTCoIP) capability, and unclassified telephone service), Gateway, communications management, and wide area networks. This capability will provide the communications connectivity from the interceptor site to the BMDS Network.

UNCLASSIFIED

Missile Defense Agency (MDA) Exhibit R-2 RDT&E Budget Item Justification	Date May 2009
--	------------------

APPROPRIATION/BUDGET ACTIVITY RDT&E, DW/04 Advanced Component Development and Prototypes (ACD&P)	R-1 NOMENCLATURE 0603908C BMD Europ Intercep Site
---	--

- Military Construction Funds (MILCON) are appropriated for site preparation and construction of all EIS facilities  
The European Midcourse Radar (EMR) Site will operate and maintain the following major components:

- The European Midcourse Radar is a steerable, X-band phased array radar currently located at Kwajalein Missile Range (KMR). The high-resolution X-band sensor will provide search, track, and discrimination of Intercontinental Ballistic Missiles (ICBMs) in the midcourse phase of flight. This data will be forwarded via communications links to the BMDS. Starting in FY08, the EMR back-end hardware (signal and data processing equipment, etc.) will be upgraded and then, deployed to the European location. Hardware (HW) upgrade design, Common Software (SW) development, Acquisition of long lead and develop and implement detailed obsolescence risk reduction plans. Design and begin manufacture of new EMR Radome. Disassemble and transport GBR-P antennae and mount from Kwajalein to the European Theater

- Military Construction Funds (MILCON) are appropriated for site preparation and construction of all EMR facilities

The European Communications System (ECS) located in Ramstein AFB, Germany will provide an integrated layered defense by networking and unifying (common purpose) individual element components (sensors, weapon systems, fire control) with all military echelons across the globe. This will allow the President and Secretary of Defense and commanders at strategic and tactical levels to systematically plan the fight (BMD Planner), commonly see it unfold (situational awareness), and dynamically direct/adjust (Global Engagement Manager (GEM)/Battle Management) networked sensors and weapons systems (BMD Network) to optimally engage (one shot - one kill) ballistic missile threats at any range, in any phase of flight, at any time. The C2BMC system provides the means to move information and data from theater and regional to a global missile defense. This communications network, part of the larger U.S. command and control system, transmits and receives data on threat missile launches, missile flight profiles, and projected target locations, enabling political and military leaders to determine when and where to launch weapons to intercept them. The system is designed to rapidly provide a wide range of information to decision-makers because of the short distances in Europe and the great speed of ballistic missiles that require threat assessment and interceptor launch decisions in just minutes.

At its completion, the EIS will provide the capability to support and launch ten (10) interceptors to protect the United States and its allies. The EIS MILCON project includes the following activities: Site preparation and the construction of EIS facilities including: SIVs/Silos, an Interceptor Monitoring Facility, EKV fuel storage and oxidizer storage facilities, Interceptor Tank/De-tank Facility, Mechanical-Electrical building, Primary & Backup Power Plant, RIDT complex, BMD Communications Support Complex (BCSC) as well as a host of support and security related facilities to ensure the effective operation, maintenance and security of the site.

**UNCLASSIFIED**

<b>Missile Defense Agency (MDA) Exhibit R-2 RDT&amp;E Budget Item Justification</b>		Date <b>May 2009</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, DW/04 Advanced Component Development and Prototypes (ACD&amp;P)</b>	R-1 NOMENCLATURE <b>0603908C BMD Europ Intercep Site</b>	

**A.2 System Element Budget Justification and Contribution to the Ballistic Missile Defense System (BMDS)**

The European Capability Block 4 expands the Ballistic Missile Defense System (BMDS) capability to defend allies and deployed forces in Europe from limited Iranian long-range threats by establishing both an Interceptor Site and a Midcourse Radar site in Europe. The European Interceptor Site (EIS) is planned as a United States (U.S.) facility on foreign soil, supported by a European Midcourse Radar (EMR), also planned as a United States (US) facility in Europe. Both the EIS and EMR will interface with US command and control nodes in Europe through upgrades to US communications at Ramstein Air Force Base (Germany). The Command & Control communications interface upgrades in Europe is known as the European Communications Interface (ECI). The European Capability Block 4 also includes sustainment for fielded assets.

**A.3 Major System Element Goals**

The Block 4.0 Capability Goals are consistent with the MDA MFP, which ensures the orderly and effective integration, testing, fielding and supportability of BMDS Elements and components for the Warfighter. Performance goals are specified via:

- Defended area
- Launch area denied
- Probability of engagement success
- Threat/Countermeasures
- Environmental resistance for both Long Range Ballistic Missiles (LRBM) and Intermediate Range Ballistic Missiles (IRBM).

Detailed metrics for these goals are contained in the Ballistic Missile Defense System Specification (BMD SS) document.

**A.4 Major Events Schedule and Description**

Major Event	Project	Timeframe	Description
<b>Delivery</b>			
<b>Flight Test Interceptors</b>			
BVT GBI	DX48	4Q FY 2009	• GBI for BVT

**UNCLASSIFIED**

<b>Missile Defense Agency (MDA) Exhibit R-2 RDT&amp;E Budget Item Justification</b>		Date <b>May 2009</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, DW/04 Advanced Component Development and Prototypes (ACD&amp;P)</b>		R-1 NOMENCLATURE <b>0603908C BMD Europ Intercep Site</b>

<b>B. Program Change Summary</b>	FY 2008	FY 2009	FY 2010	FY 2011
Previous President's Budget (FY2009 PB)	0	0	0	
Current President's Budget (FY2010 PB)	0	362,007	0	
Total Adjustments	0	362,007	0	
Congressional Program Reductions	0	-1,243	0	
Congressional Rescissions	0	0	0	
Total Congressional Increases	0	363,250	0	
Total Reprogrammings	0	0	0	
SBIR/STTR Transfer	0	0	0	
Adjustments to Budget Years	0	0	0	

FY09 Congressional specific program adjustments include transfer of \$363 million to the new European Interceptor Site PE (0603908C), and a reduction of \$1.2 million for Congressional undistributed adjustments.

**UNCLASSIFIED**

<b>Missile Defense Agency (MDA) Exhibit R-2A RDT&amp;E Project Justification</b>						Date <b>May 2009</b>		
--	--	--	--	--	--	-------------------------	--	--

<b>APPROPRIATION/BUDGET ACTIVITY</b>				<b>R-1 NOMENCLATURE</b>				
<b>RDT&amp;E, DW/04 Advanced Component Development and Prototypes (ACD&amp;P)</b>				<b>0603908C BMD Europ Intercep Site</b>				

COST (\$ in Thousands)	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
DX48 European Capability Block 4	0	362,007	0					
RDT&E Articles Qty	0	0	0					

**A. Mission Description and Budget Item Justification**

Block 4.0 provides the funding for the expansion of the BMDS capability at a third missile site; execution of the flight and ground testing program to include the demonstration of additional Engagement Sequence Groups (ESGs); fielding of additional interceptors; and the sustainment and support for the fielded capability.

Block 4.0 incorporates the next increment of fielded capability with up to ten (10) additional interceptors for either a European Site or expanded inventory at Fort Greely, AK.

Block 4.0 planned additional enhancements for European Capability includes:

- European Interceptor Site (EIS) with ten (10) additional silos and ten (10) Silo Interface Vaults (SIVs) capable of supporting interceptors and Launch Support Equipment (including CLE) to support interceptors and provide capabilities comparable to other operational sites.
- Design and development of GFC improvements to include multi-AOR.
- A Relocatable IFICS Data Terminal (RIDT) capable of sending in-flight target updates to and receiving in-flight status reports from interceptors launched from European Capability.
- GMD Communication Network (GCN) infrastructure connecting European Capability components to GMD Fire Control (GFC) Nodes located at the Missile Defense Integration and Operations Center (MDIOC) and Fort Greely, AK.
- European Capability facilities including: Interceptor Monitoring Facility, Mechanical Electrical Building (MEB), Interceptor Storage Facility, RIDT Building, Military Satellite Communications (MILSATCOM) facility and other facilities at the European Interceptor Site (EIS) capable of providing appropriate protection of equipment.
- Fielding of ten (10) 2-Stage configuration GBIs .

**UNCLASSIFIED**

Missile Defense Agency (MDA) Exhibit R-2A RDT&E Project Justification	Date <b>May 2009</b>
---	-------------------------

APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, DW/04 Advanced Component Development and Prototypes (ACD&amp;P)</b>	R-1 NOMENCLATURE <b>0603908C BMD Europ Intercep Site</b>
--	---

ESGs are demonstrated in the GMD Integrated Test Program. Capabilities of the BMDS will be enhanced as the number of operationally available ESGs increases. During Block 4.0, GMD will demonstrate capability in two additional BMDS ESGs:

- Engage on FBX-T (Hercules Algorithm)
- Launch on FBX-T (Hercules Algorithm)

**B. Accomplishments/Planned Program**

	FY 2008	FY 2009	FY 2010	FY 2011
Ground Systems	0	147,331	0	
RDT&E Articles (Quantity)	0	0	0	

The GMD Ground Systems (GS) enable fire control and operation of the GMD Element as part of the BMDS. The European Site Ground System project includes ten (10) missile silos and Silo Interface Vault (SIVs), (2) IFICS Data Terminal, connectivity to the GMD Communication Network (GCN), Command Launch Equipment, and upgraded Ground Systems hardware.

**FY09 Planned Program:**

- Continue planning and design for a European Interceptor Site (EIS) missile defense complex.
- Continue acquisition of Long Lead silos and SIVs for the European Interceptor Site.
- Initiate European Interceptor Site upon ratification of Host Nation Agreement.
- Initiate development and construction of IDT for European Capability.

	FY 2008	FY 2009	FY 2010	FY 2011
Ground Based Interceptor	0	19,200	0	
RDT&E Articles (Quantity)	0	0	0	

During Block 4.0 ten (10) 2-stage configuration Ground Based Interceptors (GBIs) will be developed and fielded within EUCOM to defend U.S. allies and deployed forces in Europe from limited Iranian long-range threats.

**UNCLASSIFIED**

<b>Missile Defense Agency (MDA) Exhibit R-2A RDT&amp;E Project Justification</b>	Date <b>May 2009</b>
--	-------------------------

<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>RDT&amp;E, DW/04 Advanced Component Development and Prototypes (ACD&amp;P)</b>	<b>R-1 NOMENCLATURE</b> <b>0603908C BMD Europ Intercep Site</b>
---	--

FY09 Planned Program:

- Initiate acquisition of long lead for development of ten (10) two-stage GBIs (European Capability Fielding), pending successfully meeting the criteria described in Section 226 of the FY08 National Defense Authorization Act.

	FY 2008	FY 2009	FY 2010	FY 2011
Two-Stage Interceptor Development	0	182,900	0	
RDT&E Articles (Quantity)	0	0	0	

The two stage interceptor development consists of the integration of a two-stage booster which is based on and leverages the existing three-stage design.

FY09 Planned Program:

- Complete acquisition of one (1) 2-Stage GBI for the Booster Verification Test (BVT) (Flight Test).
- Initiate the acquisition of one (1) 2-Stage GBI (Flight Test) for the FY10 2-Stage Interceptor Flight Test.
- Continue Development of 2-Stage Booster
- Complete acquisition of one (1) GBI for Ground Test, originally initiated as 3 stage GBIs in Block 1, now part of the acceleration of the 2-Stage development program.
- Continue planned acquisition of one (1) GBI for Ground Test, originally initiated as 3-stage GBI in Block 1, now part of the acceleration of the 2-Stage development program.

**UNCLASSIFIED**

<b>Missile Defense Agency (MDA) Exhibit R-2A RDT&amp;E Project Justification</b>			Date <b>May 2009</b>	
<b>APPROPRIATION/BUDGET ACTIVITY</b>		<b>R-1 NOMENCLATURE</b>		
<b>RDT&amp;E, DW/04 Advanced Component Development and Prototypes (ACD&amp;P)</b>		<b>0603908C BMD Europ Intercep Site</b>		
	FY 2008	FY 2009	FY 2010	FY 2011
European Interceptor Site (EIS) Communications	0	12,576	0	
RDT&E Articles (Quantity)	0	0	0	
<p>The Ballistic Missile Defense System (BMDS) Communications System Complex (BCSC) in support of the European Interceptor Site (EIS) consolidates all of the communications systems in one facility: Satellite Communication (SATCOM), Defense Information Systems Network (DISN) core, campus communications (includes the Defense Systems Network (DSN), Secret Internet Protocol Router Network (SIPRNET), Non-Secure Internet Protocol Router Network (NIPRNET) to include Video Teleconferencing Internet Protocol (VTCoIP) capability, and unclassified telephone service), Gateway, communications management, and wide area networks. This capability will provide the communications connectivity from the interceptor site to the BMDS Network.</p> <p>FY08 Accomplishments:</p> <ul style="list-style-type: none"> <li>The FY08 EIS Communications efforts were included in Program Element 0603896C BMD C2BMC, Project DX01, BMD C2BMC Block 4.0</li> </ul> <p>FY 09 Planned Program:</p> <ul style="list-style-type: none"> <li>Provide engineering support to ensure the EIS BCSC integration into the overall BMDS</li> <li>Initiate development and procurement of communication support for MDA operations in Poland</li> <li>Continue BCSC acquisition</li> <li>Continue acquisition of Modernization Enterprise Terminal (MET) SATCOM X/Ka-Band capability</li> <li>Continue acquisition of Communications Power System</li> <li>Continue acquisition of Defense Red Switch Network (DRSN) equipment</li> <li>Initiate acquisition and lease of terrestrial communications capability (fiber optic cable, microwave, etc.) to support circuit requirements of the EIS</li> </ul>				

**UNCLASSIFIED**

<b>Missile Defense Agency (MDA) Exhibit R-2A RDT&amp;E Project Justification</b>	Date <b>May 2009</b>
--	-------------------------

APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, DW/04 Advanced Component Development and Prototypes (ACD&amp;P)</b>	R-1 NOMENCLATURE <b>0603908C BMD Europ Intercep Site</b>
--	---

**C. Other Program Funding Summary**

	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total Cost
PE 0603175C Ballistic Missile Defense Technology	106,437	119,308	109,760						-
PE 0603881C Ballistic Missile Defense Terminal Defense Segment	1,034,478	956,686	719,465						-
PE 0603882C Ballistic Missile Defense Midcourse Defense Segment	2,198,664	1,507,481	982,922						-
PE 0603883C Ballistic Missile Defense Boost Defense Segment	503,475	400,751	186,697						-
PE 0603884C Ballistic Missile Defense Sensors	574,231	777,693	636,856						-
PE 0603886C Ballistic Missile Defense System Interceptors	330,874	385,493	0						-
PE 0603888C Ballistic Missile Defense Test and Targets	619,137	919,956	966,752						-
PE 0603890C Ballistic Missile Defense Enabling Programs	416,937	402,778	369,145						-
PE 0603891C Special Programs – MDA	193,157	175,712	301,566						-
PE 0603892C Ballistic Missile Defense Aegis	1,126,337	1,113,655	1,690,758						-
PE 0603893C Space Tracking & Surveillance System	226,499	208,923	180,000						-
PE 0603894C Multiple Kill Vehicle	223,084	283,481	0						-
PE 0603895C BMD System Space Program	16,237	24,686	12,549						-
PE 0603896C BMD C2BMC	439,997	288,287	340,014						-
PE 0603897C BMD Hercules	51,387	55,764	48,186						-
PE 0603898C BMD Joint Warfighter Support	45,400	69,743	60,921						-
PE 0603904C Missile Defense Integration & Operations Center (MDIOC)	77,102	106,040	86,949						-
PE 0603906C Regarding Trench	1,945	2,968	6,164						-
PE 0603907C Sea Based X-Band Radar (SBX)	155,244	146,895	174,576						-
PE 0603909C BMD Europ Midcourse Radar	0	76,537	0						-
PE 0603911C BMD European Capability	0	0	50,504						-
PE 0603912C BMD European Comm Support	0	27,008	0						-
PE 0603913C Israeli Cooperative	0	0	119,634						-
PE 0605502C Small Business Innovative Research BMDO	137,409	0	0						-
PE 0901585C Pentagon Reservation	5,971	19,667	19,709						-
PE 0901598C Management Headquarters – MDA	83,907	81,174	57,403						-

*Note:  
The Ballistic Missile Defense System (BMDS) is an integrated, interoperable, global defense system. The programs which comprise the BMDS are interdependent.*

UNCLASSIFIED

Missile Defense Agency (MDA) Exhibit R-2A RDT&E Project Justification		Date May 2009
APPROPRIATION/BUDGET ACTIVITY RDT&E, DW/04 Advanced Component Development and Prototypes (ACD&P)	R-1 NOMENCLATURE 0603908C BMD Europ Intercep Site	
<p><b><u>D. Acquisition Strategy</u></b></p> <p>EIS will continue to follow the Missile Defense Agency's capability-based acquisition strategy that emphasizes testing, development, and evolutionary acquisition through the use of MDA's new block structure and spiral development. The Department has structured the missile defense acquisition strategy to continually provide needed upgrades to the EIS system components within the new block structure. This process allows early implementation of new technologies and enhanced capabilities able to defend against the evolving threats of today and the future. This process also minimizes the risk of obsolescence, provides opportunities for standards updates, and allows decision makers to make informed trades between cost, schedule, and performance while exploring operational and technological possibilities. This developmental approach has been enhanced within the EIS program to include additional test infrastructure, improved test management, and improved models and simulations that have enhanced EIS's ability to test in more complex and operationally realistic test environments earlier than the standard acquisition process.</p>		

**UNCLASSIFIED**

Missile Defense Agency (MDA) Exhibit R-3 RDT&E Project Cost Analysis						Date May 2009				
APPROPRIATION/BUDGET ACTIVITY RDT&E, DW/04 Advanced Component Development and Prototypes (ACD&P)				R-1 NOMENCLATURE 0603908C BMD Europ Intercep Site						
<b>I. Product Development Cost ( \$ in Thousands )</b>										
Cost Categories:	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2009 Cost	FY 2009 Award/ Oblg Date	FY 2010 Cost	FY 2010 Award/ Oblg Date	FY 2011 Cost	FY 2011 Award/ Oblg Date	Total Cost
<b>Ground Systems</b>										
Planning/Design/Site Activation	C/CPAF	Boeing/ AL/AK/AZ/CA/CO/MA/VA/Europe Site	0	65,140	1/2Q	0	N/A			65,140
Missile Field Equipment	C/CPAF	Boeing/ AL/AK/AZ/CA/CO/VA/Europe Site	0	82,191	1/2Q	0	N/A			82,191
<b>Ground Based Interceptor</b>										
Ground Based Interceptor (Long Lead)	SS/CPAF	Boeing/ AL/AK/AZ/CA/CO/UT/VA	0	19,200	1/2Q	0	N/A			19,200
<b>Two-Stage Interceptor Development</b>										
2-Stage Integration and Development	C/CPAF	Boeing/ AL/AK/AZ/CA/CO/UT/VA	0	122,700	1/2Q	0	N/A			122,700
<b>European Interceptor Site (EIS) Communications</b>										
EIS - Comms Engineering Support	SS/CPAF	Lockheed Martin Team/ VA	0	4,807	1Q	0	N/A			4,807
EIS - BCSC	MIPR	PM DCATS/ VA	0	3,687	1Q	0	N/A			3,687
EIS - Comms Power	MIPR	DISA/ VA	0	2,001	1Q	0	N/A			2,001
EIS - SATCOM	MIPR	DISA/ VA	0	1,761	1Q	0	N/A			1,761
EIS - Terrestrial Communications Capability	MIPR	DISA/USAFE	0	160	1Q	0	N/A			160
EIS - Comms Support	MIPR	DISA/ VA	0	160	1Q	0	N/A			160

**UNCLASSIFIED**

<b>Missile Defense Agency (MDA) Exhibit R-3 RDT&amp;E Project Cost Analysis</b>	Date <b>May 2009</b>
---	-------------------------

<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>RDT&amp;E, DW/04 Advanced Component Development and Prototypes (ACD&amp;P)</b>	<b>R-1 NOMENCLATURE</b> <b>0603908C BMD Europ Intercep Site</b>
---	--

Cost Categories:	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2009 Cost	FY 2009 Award/ Oblg Date	FY 2010 Cost	FY 2010 Award/ Oblg Date	FY 2011 Cost	FY 2011 Award/ Oblg Date	Total Cost
Subtotal Product Development			0	301,807		0				301,807

**Remarks**

The existing prime contract will be complete at the end of first quarter FY09; funding amounts shown in the R-3 for the remaining three quarters of FY09 are estimates

**II. Support Costs Cost ( \$ in Thousands )**

Cost Categories:	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2009 Cost	FY 2009 Award/ Oblg Date	FY 2010 Cost	FY 2010 Award/ Oblg Date	FY 2011 Cost	FY 2011 Award/ Oblg Date	Total Cost
Subtotal Support Costs										

**Remarks**

**III. Test and Evaluation Cost ( \$ in Thousands )**

Cost Categories:	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2009 Cost	FY 2009 Award/ Oblg Date	FY 2010 Cost	FY 2010 Award/ Oblg Date	FY 2011 Cost	FY 2011 Award/ Oblg Date	Total Cost
<b>Two-Stage Interceptor Development</b>										
2-Stage Flight Test Interceptors	C/CPAF	Boeing/ AL/AK/AZ/CA/CO/UT/VA	0	44,200	1/2Q	0	N/A			44,200
2-Stage Ground Test Interceptors	C/CPAF	Boeing/ AL/AK/AZ/CA/CO/UT/VA	0	16,000	1/2Q	0	N/A			16,000
Subtotal Test and Evaluation			0	60,200		0				60,200

**Remarks**

**UNCLASSIFIED**

<b>Missile Defense Agency (MDA) Exhibit R-3 RDT&amp;E Project Cost Analysis</b>							Date <b>May 2009</b>			
---	--	--	--	--	--	--	-------------------------	--	--	--

<b>APPROPRIATION/BUDGET ACTIVITY</b>					<b>R-1 NOMENCLATURE</b>					
<b>RDT&amp;E, DW/04 Advanced Component Development and Prototypes (ACD&amp;P)</b>					<b>0603908C BMD Europ Intercep Site</b>					

**IV. Management Services Cost ( \$ in Thousands )**

Cost Categories:	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2009 Cost	FY 2009 Award/ Oblg Date	FY 2010 Cost	FY 2010 Award/ Oblg Date	FY 2011 Cost	FY 2011 Award/ Oblg Date	Total Cost
Subtotal Management Services										

**Remarks**

Project Total Cost			0	362,007		0				362,007
--------------------	--	--	---	---------	--	---	--	--	--	---------

**Remarks**



**UNCLASSIFIED**

<b>Missile Defense Agency (MDA) Exhibit R-4A Schedule Detail</b>						Date <b>May 2009</b>		
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>RDT&amp;E, DW/04 Advanced Component Development and Prototypes (ACD&amp;P)</b>				<b>R-1 NOMENCLATURE</b> <b>0603908C BMD Europ Intercep Site</b>				
Schedule Profile	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
<b>Flight Test Interceptors</b>								
BVT GBI		4Q						

UNCLASSIFIED

Missile Defense Agency (MDA) Exhibit R-4A Schedule Detail		Date May 2009
APPROPRIATION/BUDGET ACTIVITY RDT&E, DW/04 Advanced Component Development and Prototypes (ACD&P)	R-1 NOMENCLATURE 0603908C BMD Europ Intercep Site	

**This page intentionally left blank.**