

Missile Defense Agency

Fiscal Year 2013

Program and Budget Review

Military Construction Exhibit



February 2012

**MISSILE DEFENSE AGENCY
FY 2013 MILITARY CONSTRUCTION
PROGRAM AND BUDGET REVIEW SUBMITTAL
DESCRIPTIVE SUMMARIES**

(\$ in Thousands)

<u>Program</u>	<u>Authorization</u>	<u>Appropriation</u>
Major Construction	183,800	183,800
MILCON Planning & Design	<u>4,548</u>	<u>4,548</u>
TOTAL MILITARY CONSTRUCTION	188,348	188,348

**MISSILE DEFENSE AGENCY
FY 2013 MILITARY CONSTRUCTION
PROJECT SUMMARY
BY LOCATION**

(\$ in Thousands)

<u>State/Country/Installation/Project</u>	<u>Total Cost</u>	<u>This Request</u>	<u>New/Current Mission</u>
Major Construction			
New York			
Fort Drum In-Flight Interceptor Communication System Data Terminal Complex	25,900	25,900	New
Romania			
Deveselu Aegis Ashore Missile Defense System Complex	157,900	157,900	New
MILCON Planning and Design	4,548	4,548	
TOTAL MILITARY CONSTRUCTION	188,348	188,348	

1. COMPONENT MDA		FY 2013 MILITARY CONSTRUCTION PROJECT DATA						2. DATE Feb 2012																																
3. INSTALLATION AND LOCATION Fort Drum, New York						4. COMMAND Missile Defense Agency			5. AREA CONSTR. COST INDEX 1.15																															
6. PERSONNEL STRENGTH: N/A: Tenant of U.S. Army		PERMANENT			STUDENTS			SUPPORTED																																
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL																													
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A. TOTAL ACERAGE N/A B. INVENTORY TOTAL AS OF N/A C. AUTHORIZATION NOT YET IN INVENTORY 0 D. AUTHORIZATION REQUESTED IN THE FY2013 25,900 E. AUTHORIZATION REQUESTED IN THE FY2014 0 F. PLANNED IN NEXT THREE PROGRAM YEARS 0 G. REMAINING DEFICIENCY 0 H. GRAND TOTAL. 25,900																																								
8. PROJECTS REQUESTED IN THE FY2013 PROGRAM:																																								
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1. COMPONENT MDA		FY 2013 MILITARY CONSTRUCTION PROJECT DATA			2. DATE Feb 2012	
3. INSTALLATION AND LOCATION6 Fort Drum, New York				4. PROJECT TITLE In-Flight Interceptor Communication System Data Terminal Complex		
5. PROGRAM ELEMENT 0603882C		6. CATEGORY CODE 1312		7. PROJECT NUMBER MDA 639		8. PROJECT COST (\$000) 25,900
9. COST ESTIMATES						
ITEM		U/M (M/E)	QUANTITY	UNIT COST	COST (\$000)	
PRIMARY FACILITIES						
Communications Data Terminal Building		m2 (SF)	390.0 (4,200)	32,469 (3,015)	14,153 (12,663)	
Technical Support Building		m2 (SF)	372.0 (4,000)	3,242 (302)	(1,206)	
Security Forces Facility		m2 (SF)	27.9 (300)	3,015 (280)	(84)	
Standby Generator		LS	-	-	(200)	
SUPPORTING FACILITIES					9,008	
Communication Support		LM (LF)	1,951 (6,400)	218 (66.3)	(425)	
Physical/Electronic Security Systems		LS	-	-	(2,189)	
HVAC, Electric Service		LS	-	-	(1,887)	
Water, Sewer, Gas		LS	-	-	(1,168)	
Paving, Walks, Curbs and Gutters		LS	-	-	(1,206)	
Other (Mob/Demob)		LS	-	-	(1,183)	
Site Imp (950)/Demo (0)		LS	-	-	(950)	
SUBTOTAL					23,161	
CONTINGENCY (5%)					1,158	
TOTAL CONTRACT COST					24,319	
SIOH (6.5%)					1,581	
TOTAL REQUEST					25,900	
TOTAL REQUEST ROUNDED					25,900	
INSTALLED EQUIPMENT-OTHER APPROP					(28,500)	
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct an In-Flight Interceptor Communication System Data Terminal (IDT) complex that consists of a reinforced concrete building in which to house IDT transmitter/receiver equipment, communication antenna with inflated protective radome, uninterruptable power supply, and a 170KW standby generator. This project also constructs a specially fabricated technical support building, security lighting, fiber optic termination point, and a security forces facility. This is an operational facility that includes shielding against the effects of High-Altitude Electro Magnetic Pulse. Supporting facilities include electric power; utilities; communication ducts; physical and electronic security systems; lighting and security fencing to meet antiterrorism/force protection requirements; site improvements and storm drainage; and pavements, roads, curbs and gutters. Access for the handicapped will be provided. Air Conditioning: estimated 9 Tons						
11. REQUIRED: 8,500 SF ADEQUATE: NONE SUBSTANDARD: NONE						
PROJECT: Construct an In-Flight Interceptor Communication Building (IDT) and supporting facilities at Ft. Drum, New York (New Mission)						
REQUIREMENT: This project is required to provide capability enhancements designed to support Missile Defense Agency's Phased Adaptive Approach to developing an enhanced homeland defense capability by 2015. An IDT is required in the eastern portion of the U.S. to communicate with Ground Based Interceptors from Fort Greely or Vandenberg AFB later in flight as they defend the East Coast of the U.S.						
CURRENT SITUATION: There are currently no data terminals in the eastern U.S. that can provide ballistic missile defense system communications to meet the Missile Defense Agency's planned enhanced homeland defense against limited attack by 2015.						

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<p><u>IMPACT IF NOT PROVIDED:</u> If this project is not provided, planned enhancements of the Missile Defense Agency's homeland missile defense capability will not be available for NORTHCOM's defensive operations in 2015. Communication with ground based interceptors launched from Ft. Greely or Vandenberg AFB will not have critical course correction communications later in flight as they defend the East Coast of the U.S.</p> <p><u>ADDITIONAL INFORMATION:</u> Cost estimates are based on parametric estimates and similar experience gained during the construction of communication data terminals at Fort Greely, Alaska. This project is being coordinated with the installation's physical security plans and required physical security and/or combating terrorism measures are being included. The appropriate environmental analysis and documentation is being coordinated with the host installation and will be completed before construction.</p>																																																
12. SUPPLEMENTAL DATA: <div style="margin-left: 20px;"> <p>A. Estimated Design Data</p> <div style="margin-left: 20px;"> <p>(1) Status</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 70%;">(a) Date Design Started:</td> <td>Aug 2011</td> </tr> <tr> <td>(b) Percent complete as of January 2012:</td> <td>55%</td> </tr> <tr> <td>(c) Date 35% Design Complete:</td> <td>Nov 2011</td> </tr> <tr> <td>(d) Date Design Complete:</td> <td>Aug 2012</td> </tr> <tr> <td>(e) Parametric Cost Estimating Used to Develop Costs:</td> <td>Yes</td> </tr> <tr> <td>(f) Type of Design Contract:</td> <td>Design-Bid-Build</td> </tr> </table> <p>(2) Basis</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 70%;">(a) Standard or Repetitive Design</td> <td>Yes</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used</td> <td>Fort Greely, AK</td> </tr> </table> <p>(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 70%;">(a) Production of Plans and Specifications:</td> <td>1,009</td> </tr> <tr> <td>(b) All Other Design Costs:</td> <td>791</td> </tr> <tr> <td>(c) Total Design Costs</td> <td>1,800</td> </tr> <tr> <td>(d) Contract</td> <td>1,540</td> </tr> <tr> <td>(e) In-house</td> <td>260</td> </tr> </table> <p>(4) Construction Contract Award Jan 2013</p> <p>(5) Construction Start Feb 2013</p> <p>(6) Construction Complete Oct 2014</p> </div> <p>B. Equipment associated with this project to be provided from other appropriations:</p> <table style="width: 100%; border: none; margin-top: 10px;"> <thead> <tr> <th style="text-align: left; width: 30%;"><u>Equipment Nomenclature</u></th> <th style="text-align: left; width: 20%;"><u>Procuring Appropriation</u></th> <th style="text-align: left; width: 20%;"><u>Fiscal Year Appropriated Or Requested</u></th> <th style="text-align: left; width: 30%;"><u>Cost (\$000)</u></th> </tr> </thead> <tbody> <tr> <td>Data Terminal Equipment</td> <td>RDT&E</td> <td>FY12/13/14/15</td> <td>22,200</td> </tr> <tr> <td>LHC Equipment</td> <td>RDT&E</td> <td>FY12/13/14</td> <td>4,900</td> </tr> <tr> <td>Security Equipment</td> <td>RDT&E</td> <td>FY13</td> <td><u>1,400</u></td> </tr> <tr> <td></td> <td></td> <td></td> <td>28,500</td> </tr> </tbody> </table> </div>			(a) Date Design Started:	Aug 2011	(b) Percent complete as of January 2012:	55%	(c) Date 35% Design Complete:	Nov 2011	(d) Date Design Complete:	Aug 2012	(e) Parametric Cost Estimating Used to Develop Costs:	Yes	(f) Type of Design Contract:	Design-Bid-Build	(a) Standard or Repetitive Design	Yes	(b) Where Design Was Most Recently Used	Fort Greely, AK	(a) Production of Plans and Specifications:	1,009	(b) All Other Design Costs:	791	(c) Total Design Costs	1,800	(d) Contract	1,540	(e) In-house	260	<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>Fiscal Year Appropriated Or Requested</u>	<u>Cost (\$000)</u>	Data Terminal Equipment	RDT&E	FY12/13/14/15	22,200	LHC Equipment	RDT&E	FY12/13/14	4,900	Security Equipment	RDT&E	FY13	<u>1,400</u>				28,500
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6. PERSONNEL STRENGTH: N/A: Tenant of U.S. Navy		PERMANENT			STUDENTS			SUPPORTED																	
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CATEGORY	PROJECT TITLE	SCOPE	COST (\$000)	DESIGN STATUS																					
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1456	Aegis Ashore Missile Defense System Complex	1 EA	157,900	Sep 11 Nov 12																					
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3. INSTALLATION AND LOCATION Deveselu, Romania				4. PROJECT TITLE Aegis Ashore Missile Defense System Complex			
8. PROGRAM ELEMENT 0603892C		6. CATEGORY CODE 1456		7. PROJECT NUMBER MDA 630		8. PROJECT COST (\$000) 157,900	
9. COST ESTIMATES							
ITEM		U/M (M/E)		QUANTITY		UNIT COST	
PRIMARY FACILITIES						109,889	
Mark-41 Launch Area Infrastructure		EA		5		179,600 (898)	
HEMP Radar Deckhouse Support Building		m2 (SF)		2,703 (29,100)		8,077 (750) (21,836)	
Radar Deckhouse Foundation		m3 (CY)		268 (350)		1,588 (1214) (425)	
Special Construction		LS				(865)	
Installed Equipment		LS				(4,140)	
HEMP Backup Power Infrastructure		LS				(49,275)	
Non-HEMP Backup Power		LS				(1,440)	
Missile Storage Facility		m2 (SF)		111 (1,200)		2,863 (266) (319)	
Communications Equipment Pad		m2 (SF)		1,282 (13,800)		172 (16) (221)	
Secure Warehouse		m2 (SF)		242 (2,600)		1,550 (144) (374)	
Fire Station		m3 (SF)		585 (6,300)		3,358 (312) (1,966)	
Entry Control Facility		m2 SF		418 (4,500)		1,851 (172) (774)	
Central Security Control Facility		m2 (SF)		734 (7,900)		3,380 (314) (2,481)	
Security Fence/Gates/Lighting/ESS		LS				(8,475)	
Fuel System and Storage Facilities		BL (GA)		3,170 (100,000)		1,640 (52) (5,200)	
Temporary Facilities/Mob/Demob		LS				(11,200)	
SUPPORTING FACILITIES						29,295	
Site Electrical		LS				(500)	
Non-HEMP distribution		LS				(5,000)	
Power Distribution ductbank		LS				(10,280)	
Water, Sewer, Gas		LS				(2,140)	
Water Supply Building and Storage		LS				(3,500)	
Site Improvement/Demo		LS				(3,875)	
Pavements & Walks		LS				(2,400)	
Information/Communication Systems		LS				(1,380)	
Anti-terrorism/Force Protection		LS				(220)	
SUBTOTAL						139,184	
CONTINGENCY (5.00%)						6,959	
TOTAL CONTRACT COST						146,143	
SIOH (6.50%)						9,499	
DBA Insurance Costs						2,239	
TOTAL REQUEST						157,881	
TOTAL ROUNDED REQUEST						157,900	
INSTALLED EQUIPMENT-OTHER APPROP						(375,335)	
10. DESCRIPTION OF PROPOSED CONSTRUCTION: This project constructs an Aegis Ashore Missile Defense System site in Romania. Facilities will utilize the Aegis shipboard weapon system; launcher, radar, and command and control components. The site will consist of five Mark-41 launcher foundations, aprons and crane pads; Radar Deskhouse foundation and High-Altitude Electromagnetic Pulse (HEMP) protected Aegis Radar Deckhouse Support Building; 4MW of HEMP protected backup power, with a redundant N+2 capacity using relocatable generators, switchgear and transformer components; HEMP protected power distribution system; communications equipment pad; missile storage facility; secure warehouse; 90,000 gallon diesel fuel storage for backup generators; 10,000 gallon diesel fuel storage tank and fuel truck offload facility; 100,000 gallon fire water storage tank and HEMP protected suppression pumps; central security control facility; entry control facility; electronic security system infrastructure; perimeter security fencing, gates and patrol road within the restricted area boundary.							

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4. PROJECT TITLE Aegis Ashore Missile Defense System Complex		5. PROJECT NUMBER MDA 630																										
11. REQUIRED (cont) : <p>Temporary site activation facilities will be Research, Development, Test and Evaluation (RDT&E) funded and installed at the site, prior to construction start, to provide for site security, coordination and construction material surveillance. All surveillance activities will be RDT&E funded.</p> <p>The reconstitutable Radar Deckhouse will be fabricated, erected and tested as an RDT&E effort at Moorestown, NJ as part of MDA project 627. Once testing is complete, the radar deckhouse will be disassembled and shipped to Romania, where it will be installed on the deckhouse foundation and integrated into the deckhouse support infrastructure on site (see Block 12 paragraph B for cost details).</p> <p>Parametric cost estimates were derived from the DoD MILCON Pricing Guide (UFC 3-701-01, June 2010), US Army Corps of Engineers Programming Administration and Execution System (PAX), GSA Pricing Guides, RS Means and by analyzing costs for similar designed facilities that are being constructed at the Pacific Missile Range Facility, HI and 15% design quantity takeoffs. This project is being coordinated with the appropriate physical security plans. Required physical security and/or anti-terrorism and force protection measures will be included. All requirements of EO 12114, Environmental Effects Abroad of Major Federal Actions, will be completed prior to construction start.</p> <p>*-The RDTE narrative shown above and costs (Block 12, paragraph B) were updated from the DD 1391 included in the FY 2013 MILCON Defense Wide Justification Book in order to clarify the relocation of the Moorestown Deckhouse to Romania.</p>																												
12. SUPPLEMENTAL DATA: <p>A. Estimated Design Data</p> <p>(1) Status:</p> <table> <tr> <td>(a) Date Design Started</td> <td>Sep 2011</td> </tr> <tr> <td>(b) Percent Complete As Of November 2011</td> <td>15%</td> </tr> <tr> <td>(c) Date 35% Design Complete</td> <td>Apr 2012</td> </tr> <tr> <td>(d) Date Design Complete</td> <td>Nov 2012</td> </tr> <tr> <td>(e) Parametric Cost Estimating Used To Develop Cost</td> <td>Yes</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td>Design-Bid-Build</td> </tr> </table> <p>(2) Basis:</p> <table> <tr> <td>(a) Standard or Repetitive Design</td> <td>Yes</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used</td> <td>PMRF, HI</td> </tr> </table> <p>(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)</p> <table> <tr> <td>(a) Production of Plans and Specifications</td> <td>9,500</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>6,300</td> </tr> <tr> <td>(c) Total Design Costs</td> <td>15,800</td> </tr> <tr> <td>(d) Contract</td> <td>11,060</td> </tr> <tr> <td>(e) In-House</td> <td>4,740</td> </tr> </table> <p>(4) Contract Award Mar 2013</p> <p>(5) Construction Start Apr 2013</p> <p>(6) Construction Completion Mar 2015</p>			(a) Date Design Started	Sep 2011	(b) Percent Complete As Of November 2011	15%	(c) Date 35% Design Complete	Apr 2012	(d) Date Design Complete	Nov 2012	(e) Parametric Cost Estimating Used To Develop Cost	Yes	(f) Type of Design Contract	Design-Bid-Build	(a) Standard or Repetitive Design	Yes	(b) Where Design Was Most Recently Used	PMRF, HI	(a) Production of Plans and Specifications	9,500	(b) All Other Design Costs	6,300	(c) Total Design Costs	15,800	(d) Contract	11,060	(e) In-House	4,740
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3. INSTALLATION AND LOCATION Deveselu, Romania			
4. PROJECT TITLE Aegis Ashore Missile Defense System Complex		5. PROJECT NUMBER MDA 630	
12. SUPPLEMENTAL DATA (cont) :			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated or Requested	Cost (\$000)
Aegis Weapon System Equipment	RDT&E	FY12/13	241,800
Aegis Ashore Launch Equipment	RDT&E	FY12/13/14/15	36,000
Non-Mission Comms Equipment	RDT&E	FY13/14/15	3,800
Mission Communications Equipment	RDT&E	FY13/14	8,500
Command and Control Equipment	RDT&E	FY12/13/14/15	27,000
Ancillary Equipment	RDT&E	FY11/12	41,500
		SUB-TOTAL	358,600
Reconstitutible Deckhouse*			
Moorestown, NJ**			
Disassembly/pack/ship Deckhouse	RDT&E	FY14	6,245
Installation and reassembly in Romania	RDT&E	FY14/15	10,490
		SUB-TOTAL	16,735
		RDT&E TOTAL	375,335
<p>*-The RDTE narrative shown above (Block 11) and costs (Block 12, paragraph B) were updated from the DD 1391 included in the FY 2013 MILCON Defense Wide Justification Book in order to clarify the relocation of the Moorestown Deckhouse to Romania.</p> <p>**-Radar Deckhouse previously acquired as part of MDA project 627</p>			

1. COMPONENT MDA		FY 2013 MILITARY CONSTRUCTION PROJECT DATA			2. DATE Feb 2012	
3. INSTALLATION AND LOCATION Various Worldwide Locations			4. PROJECT TITLE Planning and Design			
5. PROGRAM ELEMENT N/A		6. CATEGORY CODE N/A	7. PROJECT NUMBER N/A		8. PROJECT COST (\$000) 4,548	
9. COST ESTIMATES						
ITEM			U/M	QUANTITY	UNIT COST	COST (\$000)
Planning and Design			LS			4,548
ESTMATED CONTRACT COST						4,548
CONTINGENCY PERCENT (0.0%)						
SUBTOTAL						4,548
SUPERVISION, INSPECTION & OVERHEAD (0.0%)						0
TOTAL REQUEST						4,548
TOTAL REQUEST (ROUNDED)						4,548
INSTALLED EQPT-OTHER APPROPRIATIONS						(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: The funds requested will be used to provide financing for architectural and engineering services and construction design of Missile Defense Agency (MDA) Military Construction projects.						
11. REQ: As required						
<u>REQUIREMENT:</u> These planning and design funds are required to initiate and complete design of facilities in the MDA military construction program including unspecified minor construction projects which are anticipated to arise during FY 2013, and accomplish planning and design for future projects with a long lead-time to be included in subsequent MDA Military Construction programs.						