Missile Defense Agency

Fiscal Year 2016 President's Budget Submittal Military Construction Exhibit



February 2015

MISSILE DEFENSE AGENCY FY 2016 MILITARY CONSTRUCTION PRESIDENT'S BUDGET SUBMITTAL DESCRIPTIVE SUMMARIES

(\$ in Thousands)

<u>Program</u>	Authorization	Appropriation
Major Construction	169,153	169,153
Unspecified Minor Construction	0	0
MILCON Planning & Design	0	0
TOTAL MILITARY CONSTRUCTION	169,153	169,153

MISSILE DEFENSE AGENCY FY 2016 MILITARY CONSTRUCTION PROJECT SUMMARY BY LOCATION

(\$ in Thousands)

State/Country/Installation/Project	Auth <u>Request</u>	Approp <u>Request</u>	New/Current <u>Mission</u>
Major Construction			
Poland Redzikowo Base Aegis Ashore Missile Defense System Complex	169,153	169,153	New
Unspecified Minor Construction			
MILCON Planning and Design			
TOTAL MILITARY CONSTRUCTION	169,153	169,153	

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA						2. DATE				
MDA	FT 2016 WILLIART CONSTRUCTION PROJECT DATA							Feb 2015			
3. INSTALLATION AND LOCATION					4. COMMAN	D			5. AREA CONSTR.		
Redzikowo Base, Poland					Missile	Defens	se Agen	су	0.97		
6. PERSONNEL	F	PERMANEN	Γ		STUDENTS			SUPPORTE	D		
STRENGTH:	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL	
N/A: Tenant of U.S. Navy											
			7. IN	VENTORY I	DATA (\$000)						
A. TOTAL ACERAGE							N/A	A			
B. INVENTORY TOTAL AS C)F						N/A	A			
C. AUTHORIZATION NOT Y	ET IN INVEN	NTORY					0				
D. AUTHORIZATION REQUE	STED IN TH	HE FY2016					1	69 , 153			
E. AUTHORIZATION REQUE	STED IN TH	HE FY2017					0				
F. PLANNED IN NEXT THRE	E PROGRA	M YEARS					0				
G. REMAINING DEFICIENCY	1						0				
H. GRAND TOTAL.							1	69 , 153			
1456 A	IN THE FY2 ROJECT TIT egis Ash efense S	LE nore Mis	sile	SCC 1 E		(\$0	/	DESIGN START Apr 14	COMPLETE		
9. FUTURE PROJECTS: CATEGORY CODE PI	ROJECT TIT	LE		SCO	PE		OST (000)				
10. MISSION OR MAJOR FUNCTIONS: The mission of the Missile Defense Agency (MDA) is to develop and field an integrated, layered Ballistic Missile Defense System (BMDS) to defend the United States, our deployed forces, allies, and friends against all ranges of enemy ballistic missiles in all phases of flight. The Aegis Ashore facility supports fulfilling the European Phased Adaptive Approach (EPAA) Phase III requirement for regional ballistic missile defense against medium and intermediate range threats to European Allies and deployed troops. 11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES: A. Air Pollution: N/A B. Water pollution: N/A C. Occupational safety and health (OSH): N/A											

1. COMPONENT MDA	F	2. DATE Feb 2015			
3. INSTALLATION AND Redzikowo Bas		nd	4. PROJECT TITLE Aegis Ashore Missile Defense Sys Complex		se System
5. PROGRAM ELEMEN	Т	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT	COST (\$000)

1456

MDA 640

169,153

9. COST ESTIMATES								
ITEM	U/M (M/E)	QUANTITY	UNIT COST	COST (\$000)				
PRIMARY FACILITIES				81,330				
Launch Area Infrastructure (14945)	EA	3	420,246	(1,261)				
HEMP Radar Support Building (89009)	m2 (SF)	2,703 (29,100)	10,802 (1,004)	(29,203)				
Deckhouse Area Foundation	LS			(1,480)				
Special Construction	LS			(6,101)				
Installed Equipment	LS			(2,421)				
HEMP Power Infrastructure	LS			(28,200)				
50Hz Backup Power Generation Equip	LS			(3,372)				
Missile Storage Facility (42172)	m2 (SF)	111 (1,200)	2,396 (223)	(267)				
Communications Equipment Pad (93210)	m2 (SF)	1,301 (14,000)	161 (15)	(210)				
Secure Warehouse (44120)	m2 (SF)	234 (2,520)	3,587 (333)	(840)				
Entry Control Facility (73025)	m2 (SF)	260 (2,800)	5,831 (541)	(1,516)				
Sec Fence/Lighting/ESS (81240/87211)	m (LF)	12,192 (40,000)	493 (150)	(6,016)				
Fuel System and Storage Fac (41130)	BL (GA)	4,127 (130,000)	107 (3)	(443)				
SUPPORTING FACILITIES				69,936				
Site Electrical	LS			(1,791)				
Power (50Hz) distribution	LS			(19 , 558)				
HEMP Power Distribution ductbank	LS			(11,560)				
Water, Sewer, Gas	LS			(3,276)				
Water Supply Building and Storage	LS			(4,736)				
Site Improvement/Demo	LS			(8,147)				
Pavements & Walks	LS			(6 , 068)				
Information/Communication Systems	LS			(4,901)				
Antiterrorism/Force Protection	LS			(1,433)				
Temporary Infrastructure Mob/Demob	LS			(8 , 466)				
SUBTOTAL				151 , 266				
CONTINGENCY (5.00%)				7 , 563				
TOTAL CONTRACT COST				158 , 829				
SIOH (6.50%)				10,324				
TOTAL REQUEST				169,153				

10. DESCRIPTION OF PROPOSED CONSTRUCTION: This project constructs the second operational Aegis Ashore Missile Defense System site utilizing the Aegis shipboard weapon system; launcher, radar, and command and control components. The first site was constructed in Romania. The Poland site will consist of three Mark-41 launcher foundations, aprons and crane pads; Radar Deckhouse foundation and a reconstitutable 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; 120,000 gallon diesel fuel storage for backup generators; 10,000 gallon diesel fuel storage tank and fuel truck offload facility; two 100,000 gallon fire water storage tanks and suppression pumps; entry control facility; electronic security system infrastructure; site boundary and restricted area security fencing, gates, patrol roads, and access paving.

0603892C

TOTAL ROUNDED REQUEST

INSTALLED EQUIPMENT-OTHER APPROP

169,153

(402,079)

1. COMPONENT

MDA

FY 2016 MILITARY CONSTRUCTION PROJECT DATA

2. DATE

Feb 2015

3. INSTALLATION AND LOCATION

Redzikowo Base, Poland

4. PROJECT TITLE:

5. PROJECT NUMBER

Aegis Ashore Missile Defense System Complex

MDA 640

10. DESCRIPTION OF PROPOSED CONSTRUCTION: (cont)

Supporting facilities include overall site development: electrical services; water; sewer; paving; walks; storm drainage; fire protection and alarm systems; site improvements and demolition; telecommunication point of presence and information management systems. The project also includes a sewage lift station; water supply wells; water treatment plant; and a 40,000 gallon potable water storage tank. Access for handicapped will be provided. Temporary infrastructure will support mobilization, site activation, construction oversight, and equipment installation.

The launcher pads, radar deckhouse, and deckhouse support building foundations include special features to meet technical stability requirements and fill material to provide positive drainage away from facilities.

Special construction includes lightning protection, equipment grounding systems, and Electromagnetic Interference (EMI) shielding and testing in mission support areas. The radar deckhouse and support building will receive Nuclear/Biological/Chemical protection.

Installed equipment includes special flooring, redundant mechanical and electrical systems, uninterruptable power system and electronic controls to monitor building systems and the base infrastructure.

11. REQUIREMENT: 1 EA

ADEQUATE: None

SUBSTANDARD: None

<u>PROJECT:</u> Construct a new Aegis Ashore Missile Defense System Complex in Poland. (New Mission)

<u>REQUIREMENT:</u> This project is required to provide added regional ballistic missile defense through the European Phased Adaptive Approach Phase III against medium and intermediate range ballistic missile threats to European Allies and deployed troops.

CURRENT SITUATION: In keeping with the 17 September 2009 announcement by the President of the United States, this project is necessary to provide the European Phased Adaptive Approach of a land-based Aegis ballistic missile defense system configuration with additional capability in Poland by 2018.

IMPACT IF NOT PROVIDED: If this project is not provided, Aegis Ashore capability will not be deployed in Poland by 2018, and the Phased Adaptive Approach Phase III timeline to deploy additional land-based Aegis ballistic missile defense capability in Europe, as announced by the President of the United States, will not be met.

ADDITIONAL INFORMATION: The Navy is programming a parallel related project (FY16 Navy Worldwide P500, Aegis Ashore Missile Defense Complex) that will provide Base Operations Support for this Aegis Ashore Missile Defense System site. The Navy funded project will include living, dining, and recreation space for site personnel as well as central security control, administration, medical treatment, fire station, and base maintenance and warehouse space.

Extension of upgraded commercial power to the site will be acquired during site activation, funded with other appropriations, and provided in accordance with applicable Defense Federal Acquisition Regulations (DFARs) for utility service contracts.

Site activation requirements for site security and material surveillance will be $\mathtt{RDT}\&\mathtt{E}$ funded.

DD FORM 1391

1. COMPONENT

MDA

FY 2016 MILITARY CONSTRUCTION PROJECT DATA

2. DATE

Feb 2015

3. INSTALLATION AND LOCATION

Redzikowo Base, Poland

4. PROJECT TITLE:
Aegis Ashore Missile Defense System Complex

5. PROJECT NUMBER

4,740

MDA 640

1. REQUIREMENT: (cont)

The reconstitutable Radar Deckhouse will be fabricated, erected and tested as a Procurement effort on the deckhouse foundation and integrated into the deckhouse support infrastructure on site.

Cost estimates were derived based on similar designed facilities that are being constructed at the initial Aegis Ashore complex at Deveselu, Romania, and at the Pacific Missile Range Facility, HI. This project is being coordinated with the appropriate physical security plans. Required physical security and/or antiterrorism and force protection measures will be included. All requirements of Executive Order 12114, Environmental Effects Abroad of Major Federal Actions, will be completed prior to construction start.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data

(e) In-House

(1) Status:

	(a)	Date Design Started	Ā	Apr	2014
	(b)	Percent Complete As Of January 2015			65%
	(C)	Date 35% Design Complete	Ā	Aug	2014
	(d)	Date Design Complete	Ī	Apr	2015
	(e)	Parametric Cost Estimating Used To Develop	Cost		No
	(f)	Type of Design Contract	Design-B	id-I	Build
(2)	Basi	s:			
	(a)	Standard or Repetitive Design			Yes
	(b)	Where Design Was Most Recently Used	Deveselu,	Ror	mania
(3)	Tota	l Design Cost (c) = $(a)+(b)$ or $(d)+(e)$		(:	\$000)
	(a)	Production of Plans and Specifications		(9,500
	(b)	All Other Design Costs		(6 , 300
	(C)	Total Design Costs		15	5,800
	(d)	Contract		11	1,060

(4) Contract AwardJan 2016(5) Construction StartApr 2016(6) Construction CompletionApr 2018

DD FORM 1391 5

1.	COMPONENT
	MDA

FY 2016 MILITARY CONSTRUCTION PROJECT DATA

2. DATE

Feb 2015

3. INSTALLATION AND LOCATION

Redzikowo Base, Poland

4. PROJECT TITLE:
Aegis Ashore Missile Defense System Complex

5. PROJECT NUMBER

MDA 640

12. SUPPLEMENTAL DATA: (cont)

B. Equipment associated with this project which will be provided from other appropriations:

		FY	
Equipment		Appropriated	Cost
Nomenclature	Appropriation	or Requested	\$(000)
Aegis Weapon System Equipment	Procurement	FY14/15	241,800
Aegis Ashore Launch Equipment	Procurement	FY15	36,000
Non-Mission Communications Equipment	Procurement	FY15/16	3,800
Mission Communications Equipment	Procurement	FY15/16	8 , 500
Command and Control Equipment	Procurement	FY14/15	27,000
Ancillary Equipment	Procurement	FY15/16 SUB-TOTAL	41,500 358,600
Extension of Commercial Power Site Activation Facilities (Equipment)	RDT&E RDT&E	FY15/16 FY15 SUB-TOTAL	4,700 3,705 8,405
Reconstitutable Deckhouse Deckhouse Procurement Deckhouse Install in Poland	Procurement Procurement	FY15 FY15/16 SUB-TOTAL	24,584 10,490 35,074

TOTAL: 402,079



