

Missile Defense Agency

Fiscal Year 2014

President's Budget Submittal

Military Construction Exhibit



April 2013

**MISSILE DEFENSE AGENCY
FY 2014 MILITARY CONSTRUCTION, DEFENSE-WIDE
PRESIDENT'S BUDGET SUBMITTAL
DESCRIPTIVE SUMMARIES**

(\$ in Thousands)

<u>Program</u>	<u>Authorization</u>	<u>Appropriation</u>
Major Construction	114,204	199,204
Unspecified Minor Construction	2,000	2,000
MILCON Planning & Design	<u>10,891</u>	<u>10,891</u>
TOTAL MILITARY CONSTRUCTION	127,095	212,095

**MISSILE DEFENSE AGENCY
FY 2014 MILITARY CONSTRUCTION, DEFENSE-WIDE
PROJECT SUMMARY
BY LOCATION**

(\$ in Thousands)

<u>State/Country/Installation/Project</u>	<u>Auth Request</u>	<u>Approp Request</u>	<u>New/Current Mission</u>
Major Construction			
Alaska			
Clear Air Force Station BMDS Upgrade Early Warning Radar	17,204	17,204	New
Ft. Greely Mechanical-Electrical Building, Missile Field #1	82,000	82,000	New
Worldwide Classified			
AN/TPY-2 Radar Site	15,000	15,000	New
Romania			
Deveselu Base Aegis Ashore Missile Defense System Complex, Increment 2	-	85,000	New
Unspecified Minor Construction	2,000	2,000	
MILCON Planning and Design	10,891	10,891	
TOTAL MILITARY CONSTRUCTION	127,095	212,095	

1. COMPONENT MDA		FY 2014 MILITARY CONSTRUCTION PROJECT DATA						2. DATE Mar 2013		
3. INSTALLATION AND LOCATION Clear Air Force Station, Alaska						4. COMMAND Missile Defense Agency			5. AREA CONSTR. COST INDEX 2.01	
6. PERSONNEL STRENGTH: N/A: Tenant of U.S. Air Force		PERMANENT			STUDENTS			SUPPORTED		
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN
7. INVENTORY DATA (\$000)										
A. TOTAL ACERAGE N/A										
B. INVENTORY TOTAL AS OF N/A										
C. AUTHORIZATION NOT YET IN INVENTORY 0										
D. AUTHORIZATION REQUESTED IN THE FY2014 17,204										
E. AUTHORIZATION REQUESTED IN THE FY2015 0										
F. PLANNED IN NEXT THREE PROGRAM YEARS 0										
G. REMAINING DEFICIENCY 0										
H. GRAND TOTAL. 17,204										
8. PROJECTS REQUESTED IN THE FY2014 PROGRAM:										
CATEGORY		PROJECT TITLE		SCOPE		COST (\$000)		DESIGN STATUS		
CODE								START		COMPLETE
1311		BMDS Upgrade Early Warning Radar		7,400 SF		17,204		Mar 12		Dec 13
9. FUTURE PROJECTS:										
CATEGORY		PROJECT TITLE		SCOPE		COST (\$000)				
CODE										
10. MISSION OR MAJOR FUNCTIONS: The mission of the Missile Defense Agency 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.										
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		FY 2014 MILITARY CONSTRUCTION PROJECT DATA		2. DATE Mar 2013	
3. INSTALLATION AND LOCATION6 Clear Air Force Station, Alaska			4. PROJECT TITLE BMDS Upgrade Early Warning Radar		
5. PROGRAM ELEMENT 0603884C		6. CATEGORY CODE 1311	7. PROJECT NUMBER MDA 634		8. PROJECT COST (\$000) 17,204
9. COST ESTIMATES					
ITEM		U/M (M/E)	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES					12,688
Add/Alter Radar Building		m2 (SF)	474 (5,100)	11,556 (1,074)	(5,476)
SATCOM Earth Terminal Fac (HEMP)		m2 (SF)	214 (2,300)	9,813 (913)	(2,100)
SATCOM Integrated Walkway/Utilidor		m2 (SF)	74 (799)	15,138 (1,402)	(1,120)
3MW Power Generator		KW	3000	1,330	(3,992)
SUPPORTING FACILITIES					2,697
HVAC/Electrical/Telecom Services		LS			(933)
Water, Sewer, Gas		LS			(185)
Paving, Walks, Curbs and Gutters		LS			(121)
Anti-Terrorism/Force Protection		LS			(106)
Site Imp (429)/Demo (100)		LS			(529)
Other (Mob/Demob)		LS			(823)
SUBTOTAL					15,385
CONTINGENCY (5%)					769
TOTAL CONTRACT COST					16,154
SIOH (6.5%)					1,050
TOTAL REQUEST					17,204
TOTAL REQUEST ROUNDED					17,204
INSTALLED EQUIPMENT-OTHER APPROP					(150,700)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Modify existing Phased Array Radar Facility to enable installation of the Upgrade Early Warning Radar (UEWR) equipment, Missile Defense Communication Network equipment, Single Stimulation Framework equipment, and the Satellite Communication Earth Terminal equipment. Provide modifications on various floors of the radar building including the existing communication room, computer room, radar room, Missile Warning Operation Center and related support spaces as necessary. Modify power and HVAC systems to allow simultaneous operation of both new and legacy UEWR equipment. Demolish existing fuel tank foundation and piping to construct a new concrete foundation and pad for the Earth Terminal antenna radome. Construct an integrated walkway/utilidor to provide High Altitude Electromagnetic Pulse (HEMP) and weather protected connections between the UEWR facility and the new antenna. Install one additional 3MW generator in the existing power plant. Supporting facilities include: electrical services, water, sewer, storm drainage, fire protection and alarm systems, telecommunications systems, and anti-terrorism/force protection security measures to include vehicle denial capability. Access for the physically disabled will be maintained.					
11. REQUIREMENT: 7,400 SF ADEQUATE: - SUBSTANDARD: -7,400 SF PROJECT: Construct facility modifications to upgrade the existing Early Warning Radar at Clear Air Force Station (AFS) in support of the Missile Defense Agency's (MDA) Ballistic Missile Defense System. (New Mission) REQUIREMENT: This project is required to enhance existing Early Warning Radars and satellite communications capability designed to support the Missile Defense Agency's enhanced homeland defense capability. CURRENT SITUATION: Current Early Warning Radar at Clear Air Force Station does not have enhanced sensor capabilities to adequately meet technological and threat assessments to support the Ballistic Missile Defense System (BMDS). This project supports the BMDS and enables the Early Warning Radar at Clear AFS to support planned enhanced homeland defense.					

1. COMPONENT MDA	FY 2014 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Mar 2013
3. INSTALLATION AND LOCATION Clear Air Force Station, Alaska		
4. PROJECT TITLE : BMDS Upgrade Early Warning Radar		5. PROJECT NUMBER MDA 634
11. REQUIRED (cont) : IMPACT IF NOT PROVIDED: If this project is not funded, planned enhancement of the sensors and communications systems elements will not be available to support enhanced homeland defensive operations in 2018. Ultimately, the full potential to defend the United States against limited ballistic missile attack will not be achieved. ADDITIONAL INFORMATION: Cost estimates were derived from RS Means Construction Cost data, DoD Facilities Pricing Guide, UFC 3-701-09, analyzing costs for similar existing facilities at Thule, Greenland and then updated based on 35% design. This project has been coordinated with the installation's physical security plans and required physical security and/or combating terrorism measures are included. Environmental analysis and documentation has been coordinated with US Air Force Space Command. Recent Air Force Space Command modifications to the power plant have allowed room for the MDA generator. The Air Force also intends to upgrade the sensed perimeter fence and construct two fuel tanks to support the power plant.		
12. SUPPLEMENTAL DATA: <div style="margin-left: 20px;"> A. Estimated Design Data <div style="margin-left: 20px;"> (1) Status <div style="margin-left: 20px;"> (a) Date Design Started: Mar 2012 </div> <div style="margin-left: 20px;"> (b) Percent complete as of January 2013: 35% </div> <div style="margin-left: 20px;"> (c) Date 35% Design Complete: Sep 2012 </div> <div style="margin-left: 20px;"> (d) Date Design Complete: Dec 2013 </div> <div style="margin-left: 20px;"> (e) Parametric Cost Estimating Used to Develop Costs: No </div> <div style="margin-left: 20px;"> (f) Type of Design Contract: Design-Bid-Build </div> </div> </div> <div style="margin-left: 20px;"> (2) Basis <div style="margin-left: 20px;"> (a) Standard or Repetitive Design No </div> <div style="margin-left: 20px;"> (b) Where Design Was Most Recently Used N/A </div> </div> <div style="margin-left: 20px;"> (3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000) <div style="margin-left: 20px;"> (a) Production of Plans and Specifications: 444 </div> <div style="margin-left: 20px;"> (b) All Other Design Costs: 656 </div> <div style="margin-left: 20px;"> (c) Total Design Costs 1,100 </div> <div style="margin-left: 20px;"> (d) Contract 766 </div> <div style="margin-left: 20px;"> (e) In-house 334 </div> </div> <div style="margin-left: 20px;"> (4) Construction Contract Award Jan 2014 </div> <div style="margin-left: 20px;"> (5) Construction Start Feb 2014 </div> <div style="margin-left: 20px;"> (6) Construction Complete Mar 2016 </div>		

1. COMPONENT MDA	FY 2014 MILITARY CONSTRUCTION PROJECT DATA		2. DATE Mar 2013
3. INSTALLATION AND LOCATION Clear Air Force Station, Alaska			
4. PROJECT TITLE : BMDS Upgrade Early Warning Radar			5. PROJECT NUMBER MDA 634
12. SUPPLEMENTAL DATA: (cont)			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u>	Fiscal Year Appropriated <u>Or Requested</u>	Cost <u>(\$000)</u>
Long Lead Radar Equipment	RDT&E	FY13	\$ 127,000
Network Equipment	RDT&E	FY13	\$ 4,700
AN/GSC-52B(V) 6 Earth Terminal	RDT&E	FY13	\$ 11,000
Miscellaneous Equip Costs	RDT&E	FY13	\$ 8,000
		TOTAL	\$ 150,700

1. COMPONENT MDA		FY 2014 MILITARY CONSTRUCTION PROJECT DATA						2. DATE Mar 2013			
3. INSTALLATION AND LOCATION Ft. Greely, Alaska						4. COMMAND Missile Defense Agency			5. AREA CONSTR. COST INDEX 2.02		
6. PERSONNEL		PERMANENT			STUDENTS			SUPPORTED			
STRENGTH:		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL
N/A: Tenant of U.S. Army											
7. INVENTORY DATA (\$000)											
A. TOTAL ACERAGE N/A											
B. INVENTORY TOTAL AS OF N/A											
C. AUTHORIZATION NOT YET IN INVENTORY 0											
D. AUTHORIZATION REQUESTED IN THE FY2014 82,000											
E. AUTHORIZATION REQUESTED IN THE FY2015 0											
F. PLANNED IN NEXT THREE PROGRAM YEARS 0											
G. REMAINING DEFICIENCY 0											
H. GRAND TOTAL. 82,000											
8. PROJECTS REQUESTED IN THE FY2014 PROGRAM:											
CATEGORY CODE		PROJECT TITLE		SCOPE		COST (\$000)		DESIGN STATUS			
8910		Mechanical-Electric Building Missile Field 1		10,400 SF		82,000		START		COMPLETE	
								Apr 13		Jul 14	
9. FUTURE PROJECTS:											
CATEGORY CODE		PROJECT TITLE		SCOPE		COST (\$000)					
10. MISSION OR MAJOR FUNCTIONS: The mission of the Missile Defense Agency 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.											
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		FY 2014 MILITARY CONSTRUCTION PROJECT DATA			2. DATE Mar 2013	
3. INSTALLATION AND LOCATION Fort Greely, Alaska			4. PROJECT TITLE Mechanical-Electrical Building, Missile Field #1			
8. PROGRAM ELEMENT 0603882C		6. CATEGORY CODE 8910		7. PROJECT NUMBER MDA 649		8. PROJECT COST (\$000) 82,000
9. COST ESTIMATES						
ITEM		U/M	QUANTITY		UNIT COST	COST \$(000)
<u>PRIMARY FACILITIES</u>						56,029
Mechanical-Electrical Building (MEB)		m2 (SF)	966	(10,400)	10,178 (945)	(9,832)
MEB Blast Protection		LS				(10,605)
MEB HEMP & EMI Protection		LS				(7,858)
Special Foundations		LS				(6,908)
Installed Equipment		LS				(6,565)
Extend Utilidor & Interface		LS				(12,261)
Security Infrastructure		LS				(2,000)
<u>SUPPORTING FACILITIES</u>						14,312
Site HEMP Electrical		LS				(3,523)
Water, Sewer, Gas		LS				(1,000)
Paving, Walks		LS				(1,501)
Site Imp / Demo		LS				(7,038)
Information/Communication Systems		LS				(1,250)
SUBTOTAL						70,341
CONTINGENCY (5.00%)						3,517
TOTAL CONTRACT COST						73,858
DESIGN/BUILD DESIGN COST (4.00%)						2,954
SIOH (6.50%)						4,801
TOTAL REQUEST						81,613
TOTAL ROUNDED REQUEST						82,000
<u>INSTALLED EQUIPMENT-OTHER APPROP</u>						2,500
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a High Altitude Electromagnetic Pulse (HEMP) and blast protected Mechanical-Electrical Building (MEB) and associated utility and security infrastructure. The MEB construction utilizes reinforced concrete walls and ceiling for blast protection covered with metal panels, and a standing seam metal roof. Special foundations will be required for the MEB. The MEB will house redundant HEMP protected mechanical and electrical equipment supporting the launch control components. Other MEB construction includes lightning protection and equipment grounding systems.</p> <p>MEB Blast Protection consists of 20-inch thick reinforced concrete walls and ceiling, blast rated doors and valves, and foundation substructure anchoring.</p> <p>MEB HEMP and Electromagnetic Interference (EMI) Protection include 1/4-inch thick steel plates and custom built specialty power filters that provide HEMP and EMI protection. The HEMP and EMI protection is required to be tested and certified.</p> <p>The MEB foundations include special features to meet site specific ground motion requirements, seismic requirements, and blast protection requirements.</p> <p>Installed Equipment within the MEB supports the launch control components within the silos interface vaults and includes: dual chillers, heat exchanger, water pumps, demineralizing system for humidity control, transformers, uninterruptable</p>						

1. COMPONENT MDA	FY 2014 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Mar 2013
3. INSTALLATION AND LOCATION Fort Greely, Alaska		
4. PROJECT TITLE Mechanical-Electrical Building, Missile Field #1		5. PROJECT NUMBER MDA 649
10. DESCRIPTION OF PROPOSED CONSTRUCTION (CONTINUED): <p>power system, and electronic controls to monitor building systems and the base infrastructure.</p> <p>The MEB will contain an underground utility vault entrance and utilidor extension that will connect to the existing Missile Field 1 utilidor. Utility branch lines to the silos and silo interface vaults will be restored to meet current mission requirements.</p> <p>Security measures include intrusion detection, access control, and construction escorts.</p> <p>Supporting facilities include: HEMP protected electrical distribution, water, sewer, paving, fire protection and alarm systems, site improvements, information management systems, and demolition.</p>		
<p>11. REQUIRED: 10,400 SF ADEQUATE: NONE SUBSTANDARD: NONE</p> <p><u>PROJECT:</u> Construct HEMP and blast protected Mechanical-Electrical Building (MEB), associated security infrastructure, and supporting facilities. (New Mission)</p> <p><u>REQUIREMENT:</u> This project is required to provide the Ground Based Mid-course Defense System with increased capabilities to enhance homeland defense. This project constructs a HEMP and blast protected MEB that supports current survivability and reliability, availability, and maintainability (RAM) requirements, and upgrades the security and lighting infrastructure to meet System Security Level-A (SSL-A) requirements. Redundant HEMP protected utility feeds are required for mission critical equipment. The new MEB will allow the upgraded Missile Field 1 to increase the potential number of operational interceptor silos at Fort Greely, AK.</p> <p><u>CURRENT SITUATION:</u> The existing MEB at Missile Field 1 was built as a test bed and provided limited defense capability. The existing missile field and utility infrastructure is not HEMP protected and does not have the redundancy that is required of an operational weapon system. The lack of a HEMP protected facility and redundant HEMP protected utilities could compromise the mission readiness and capability of the Ground Based Mid-course System if Missile Field 1 were to be re-utilized to perform missile defense operations.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Planned enhancements and capabilities of the Ballistic Missile Defense System will not be available for our Nation's homeland defense.</p> <p><u>ADDITIONAL INFORMATION:</u> This project is being coordinated with the appropriate physical security plans and includes required physical security and/or combating terrorism measures. All required NEPA and/or EO 12114 analyses will be completed prior to the start of construction.</p> <p>The MEB site adapt design will be based upon the existing MEB-2 at Missile Field 2 Fort Greely, AK, to included enhanced design for supporting HEMP infrastructure.</p> <p>A companion infrastructure repair project, funded with RDT&E, is being programmed for other Missile Field 1 components to meet current missile field standards.</p>		

1. COMPONENT MDA	FY 2014 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Mar 2013																																		
3. INSTALLATION AND LOCATION Fort Greely, Alaska																																				
4. PROJECT TITLE Mechanical-Electrical Building, Missile Field #1		5. PROJECT NUMBER MDA 649																																		
12. SUPPLEMENTAL DATA: <div style="margin-left: 20px;"> A. Estimated Design Data (1) Status: <table style="width: 100%; margin-left: 40px;"> <tr> <td>(a) Date Design Started</td> <td style="text-align: right;">Apr 2013</td> </tr> <tr> <td>(b) Percent Complete As Of January 2013</td> <td style="text-align: right;">0%</td> </tr> <tr> <td>(c) Date 35% Design Complete</td> <td style="text-align: right;">Mar 2014</td> </tr> <tr> <td>(d) Date Design Complete</td> <td style="text-align: right;">Jul 2014</td> </tr> <tr> <td>(e) Analogous Cost Estimating Used To Develop Cost</td> <td style="text-align: right;">Yes</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td style="text-align: right;">Design-Build</td> </tr> </table> (2) Basis: <table style="width: 100%; margin-left: 40px;"> <tr> <td>(a) Standard or Repetitive Design</td> <td style="text-align: right;">Yes*</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used</td> <td style="text-align: right;">Alaska</td> </tr> </table> (3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000) <table style="width: 100%; margin-left: 40px;"> <tr> <td>(a) Production of Plans and Specifications</td> <td style="text-align: right;">4,200</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td style="text-align: right;">2,800</td> </tr> <tr> <td>(c) Total Design Costs</td> <td style="text-align: right;">7,000</td> </tr> <tr> <td>(d) Contract</td> <td style="text-align: right;">5,000</td> </tr> <tr> <td>(e) In-House</td> <td style="text-align: right;">2,000</td> </tr> </table> (4) Contract Award Feb 2014 (5) Construction Start Apr 2014 (6) Construction Completion May 2016 </div> <p>* The MEB design-build will be based upon the existing MEB-2 at Missile Field 2 Fort Greely, AK, to included enhanced design for supporting HEMP infrastructure.</p> <div style="margin-left: 20px;"> B. Equipment associated with this project which will be provided from other appropriations: <table style="width: 100%; margin-left: 40px; margin-top: 20px;"> <thead> <tr> <th style="text-align: left;">Equipment Nomenclature</th> <th style="text-align: left;">Procuring Appropriation</th> <th style="text-align: left;">FY Appropriated or Requested</th> <th style="text-align: left;">Cost \$ (000)</th> </tr> </thead> <tbody> <tr> <td>Security Equipment</td> <td>RDT&E</td> <td>FY14</td> <td style="text-align: right;">2,500</td> </tr> </tbody> </table> </div>			(a) Date Design Started	Apr 2013	(b) Percent Complete As Of January 2013	0%	(c) Date 35% Design Complete	Mar 2014	(d) Date Design Complete	Jul 2014	(e) Analogous Cost Estimating Used To Develop Cost	Yes	(f) Type of Design Contract	Design-Build	(a) Standard or Repetitive Design	Yes*	(b) Where Design Was Most Recently Used	Alaska	(a) Production of Plans and Specifications	4,200	(b) All Other Design Costs	2,800	(c) Total Design Costs	7,000	(d) Contract	5,000	(e) In-House	2,000	Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost \$ (000)	Security Equipment	RDT&E	FY14	2,500
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1. COMPONENT MDA		FY 2014 MILITARY CONSTRUCTION PROJECT DATA						2. DATE Mar 2013														
3. INSTALLATION AND LOCATION Worldwide Classified						4. COMMAND Missile Defense Agency			5. AREA CONSTR. COST INDEX 1.40													
6. PERSONNEL STRENGTH: N/A: Tenant of U.S. Army		PERMANENT			STUDENTS			SUPPORTED														
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL											
7. INVENTORY DATA (\$000)																						
A. TOTAL ACERAGE N/A B. INVENTORY TOTAL AS OF N/A C. AUTHORIZATION NOT YET IN INVENTORY 0 D. AUTHORIZATION REQUESTED IN THE FY2014 15,000 E. AUTHORIZATION REQUESTED IN THE FY2015 0 F. PLANNED IN NEXT THREE PROGRAM YEARS 0 G. REMAINING DEFICIENCY 0 H. GRAND TOTAL. 15,000																						
8. PROJECTS REQUESTED IN THE FY2014 PROGRAM:																						
<table border="0"> <tr> <td>CATEGORY CODE</td> <td>PROJECT TITLE</td> <td>SCOPE</td> <td>COST (\$000)</td> <td>DESIGN STATUS START</td> <td>COMPLETE</td> </tr> <tr> <td>3121</td> <td>AN/TPY-2 Radar Site</td> <td>1 EA</td> <td>15,000</td> <td>Mar 13</td> <td>Jan 14</td> </tr> </table>											CATEGORY CODE	PROJECT TITLE	SCOPE	COST (\$000)	DESIGN STATUS START	COMPLETE	3121	AN/TPY-2 Radar Site	1 EA	15,000	Mar 13	Jan 14
CATEGORY CODE	PROJECT TITLE	SCOPE	COST (\$000)	DESIGN STATUS START	COMPLETE																	
3121	AN/TPY-2 Radar Site	1 EA	15,000	Mar 13	Jan 14																	
9. FUTURE PROJECTS:																						
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10. MISSION OR MAJOR FUNCTIONS: The mission of the Missile Defense Agency 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.																						
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	FY 2014 MILITARY CONSTRUCTION PROJECT DATA			2. DATE Mar 2013
5. INSTALLATION AND LOCATION Worldwide Classified		6. PROJECT TITLE AN/TPY-2 Radar Site		
5. PROGRAM ELEMENT 0603884C	6. CATEGORY CODE 3121	7. PROJECT NUMBER MDA 648	8. PROJECT COST (\$000) 15,000	
9. COST ESTIMATES				
ITEM	U/M (M/E)	QUANTITY	UNIT COST	COST (\$000)
<u>PRIMARY FACILITIES</u>				
Modular Facilities	EA	4	69,500	8,549 (278)
Clearing and Grubbing	AC	3.2	111,665	(357)
Concrete Slab - Radar area	SY	544	583.88	(318)
Security Fencing and Lighting	LF	9270	207.56	(1,924)
Security Facilities & Infrastructure	LS			(4,976)
Fuel System and Storage	LS			(696)
<u>SUPPORTING FACILITIES</u>				
Site Electrical	LS			4,161 (830)
Water, Sewer, Gas	LS			(1,236)
Site Improvement/Earthwork	LS			(900)
Information/Communication Systems	LS			(600)
Other (Mob/Demob)	LS			(595)
SUBTOTAL				12,710
CONTINGENCY (10%)				1,271
TOTAL CONTRACT COST				13,981
SIOH (6.5%)				909
TOTAL REQUEST				14,890
TOTAL REQUEST ROUNDED				15,000
INSTALLED EQUIPMENT-OTHER APPROP				(189,490)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a site to support the Army/Navy Transportable Radar Surveillance (AN/TPY-2) radar and equipment, to include concrete and gravel hardstands, operations facility, maintenance facility, storage facility, entry control point, security control center, Electronic Security System infrastructure, security lighting, security fencing, security barriers, fuel storage system, and lightning protection and grounding system. Supporting facilities include power distribution system, communications network, asphalt pavement, gravel pavement, sanitary sewers, water distribution lines, and site improvements. Life support facilities and additional Antiterrorism/Force Protection measures will be provided by the U.S. Army.				
11. REQUIREMENT: 1 EA ADEQUATE: None SUBSTANDARD: None <u>PROJECT:</u> Prepare a new PACOM site to host the AN/TPY-2 radar components, support facilities, and infrastructure. (New Mission) <u>REQUIREMENT:</u> The AN/TPY-2 radar requires a prepared site, support facilities, and infrastructure to provide more robust regional defensive and homeland defensive capabilities against short/medium/intermediate-range ballistic missile threats. The radar is an element of the Ballistic Missile Defense System (BMDS) and provides a forward sensor for early detection, tracking and discrimination of threats. The radar transmits the track data to the BMDS Command and Control, Battle Management and Communications (C2BMC) within a layered sensor network to accurately locate, discriminate, and track threats. <u>CURRENT SITUATION:</u> There are currently no adequate sites in the PACOM area of responsibility able to receive the radar and supporting equipment, and meet the performance requirements. Deployment and operation of the radar is not possible without preparation of the site.				

1. COMPONENT MDA	FY 2014 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Mar 2013																																																									
3. INSTALLATION AND LOCATION Worldwide Classified																																																											
4. PROJECT TITLE : AN/TPY-2 Radar Site		5. PROJECT NUMBER MDA 648																																																									
<p>11. REQUIRED (cont) :</p> <p><u>IMPACT IF NOT PROVIDED:</u> If this project is not provided, the radar cannot be deployed, limiting the capability of the BMDS to defend against regional threats. Deployment & operation of the radar is not possible without preparing this site.</p> <p><u>ADDITIONAL INFORMATION:</u> Analogous cost estimates were derived by analyzing costs for similar designed facilities that have been constructed at other locations.</p> <p>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 to meet Security System Level A (SSL-A) requirements. All requirements of Executive Order 12114, Environmental Effects Abroad of Major Federal Actions, will be completed prior to construction start.</p> <p>The Army is programming a companion FY14 Forward Operating Site, OCONUS project that will provide Base Operations Support for this radar site. The Army funded project will include dining and recreation space for site personnel as well as site security, administration, medical treatment, base maintenance and warehouse space.</p> <p>Extension of upgraded commercial power to the site will be acquired with other appropriations, and provided in accordance with applicable Defense Federal Acquisition Regulations (DFARS) for utility service contracts.</p> <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 equipment will be RDT&E funded.</p>																																																											
<p>12. SUPPLEMENTAL DATA:</p> <p>A. Estimated Design Data</p> <table border="0"> <tr> <td colspan="3">(1) Status</td> </tr> <tr> <td>(a) Date Design Started:</td> <td></td> <td>Mar 2013</td> </tr> <tr> <td>(b) Percent complete as of January 2013:</td> <td></td> <td>0%</td> </tr> <tr> <td>(c) Date 35% Design Complete:</td> <td></td> <td>Sep 2013</td> </tr> <tr> <td>(d) Date Design Complete:</td> <td></td> <td>Jan 2014</td> </tr> <tr> <td>(e) Analogous Cost Estimating Used to Develop Costs:</td> <td></td> <td>Yes</td> </tr> <tr> <td>(f) Type of Design Contract:</td> <td></td> <td>Design-Bid-Build</td> </tr> <tr> <td colspan="3">(2) Basis</td> </tr> <tr> <td>(a) Standard or Repetitive Design</td> <td></td> <td>Yes</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used</td> <td></td> <td>Turkey</td> </tr> <tr> <td>(3) Total Design Cost (c) = (a)+(b) or (d)+(e)</td> <td></td> <td>(\$000)</td> </tr> <tr> <td>(a) Production of Plans and Specifications:</td> <td></td> <td>870</td> </tr> <tr> <td>(b) All Other Design Costs:</td> <td></td> <td>580</td> </tr> <tr> <td>(c) Total Design Costs</td> <td></td> <td>1,450</td> </tr> <tr> <td>(d) Contract</td> <td></td> <td>1,020</td> </tr> <tr> <td>(e) In-house</td> <td></td> <td>430</td> </tr> <tr> <td>(4) Construction Contract Award</td> <td></td> <td>Mar 2014</td> </tr> <tr> <td>(5) Construction Start</td> <td></td> <td>May 2014</td> </tr> <tr> <td>(6) Construction Complete</td> <td></td> <td>Dec 2014</td> </tr> </table>			(1) Status			(a) Date Design Started:		Mar 2013	(b) Percent complete as of January 2013:		0%	(c) Date 35% Design Complete:		Sep 2013	(d) Date Design Complete:		Jan 2014	(e) Analogous Cost Estimating Used to Develop Costs:		Yes	(f) Type of Design Contract:		Design-Bid-Build	(2) Basis			(a) Standard or Repetitive Design		Yes	(b) Where Design Was Most Recently Used		Turkey	(3) Total Design Cost (c) = (a)+(b) or (d)+(e)		(\$000)	(a) Production of Plans and Specifications:		870	(b) All Other Design Costs:		580	(c) Total Design Costs		1,450	(d) Contract		1,020	(e) In-house		430	(4) Construction Contract Award		Mar 2014	(5) Construction Start		May 2014	(6) Construction Complete		Dec 2014
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1. COMPONENT MDA	FY 2014 MILITARY CONSTRUCTION PROJECT DATA		2. DATE Mar 2013
3. INSTALLATION AND LOCATION Worldwide Classified			
4. PROJECT TITLE : AN/TPY-2 Radar Site			5. PROJECT NUMBER MDA 648
12. SUPPLEMENTAL DATA: (cont)			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u>	FY <u>Appropriated or Requested</u>	Cost <u>\$(000)</u>
Radar Mission Equipment	RDT&E	FY11	175,000
Mission C2BMC Equipment	RDT&E	FY13	6,400
Comms Support Equipment	RDT&E	FY13/14	210
IESS Equipment	RDT&E	FY13/14	2,200
Generators	RDT&E	FY13/14	2,510
RST and Long Lead Material	RDT&E	FY13/14	<u>2,420</u>
		SUB-TOTAL	188,740
Extension of Commercial Power	RDT&E	FY15	<u>750</u>
		SUB-TOTAL	750
		TOTAL RDT&E	189,490

1. COMPONENT MDA		FY 2014 MILITARY CONSTRUCTION PROJECT DATA						2. DATE Mar 2013																				
3. INSTALLATION AND LOCATION Deveselu Base, Romania						4. COMMAND Missile Defense Agency			5. AREA CONSTR. COST INDEX 0.99																			
6. PERSONNEL STRENGTH: N/A: Tenant of U.S. Navy		PERMANENT			STUDENTS			SUPPORTED																				
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL																	
7. INVENTORY DATA (\$000)																												
A. TOTAL ACERAGE N/A B. INVENTORY TOTAL AS OF N/A C. AUTHORIZATION NOT YET IN INVENTORY 0 D. AUTHORIZATION REQUESTED IN THE FY2014 0 E. AUTHORIZATION REQUESTED IN THE FY2015 0 F. PLANNED IN NEXT THREE PROGRAM YEARS 0 G. REMAINING DEFICIENCY 0 H. GRAND TOTAL. 0																												
8. PROJECTS REQUESTED IN THE FY2014 PROGRAM: <table border="0"> <tr> <td>CATEGORY</td> <td>PROJECT TITLE</td> <td>SCOPE</td> <td>COST (\$000)</td> <td colspan="2">DESIGN STATUS</td> </tr> <tr> <td>CODE</td> <td></td> <td></td> <td></td> <td>START</td> <td>COMPLETE</td> </tr> <tr> <td>1456</td> <td>Aegis Ashore Missile Defense System Complex, Increment 2</td> <td>1 EA</td> <td>85,000</td> <td>Sep 11</td> <td>Jan 13</td> </tr> </table>											CATEGORY	PROJECT TITLE	SCOPE	COST (\$000)	DESIGN STATUS		CODE				START	COMPLETE	1456	Aegis Ashore Missile Defense System Complex, Increment 2	1 EA	85,000	Sep 11	Jan 13
CATEGORY	PROJECT TITLE	SCOPE	COST (\$000)	DESIGN STATUS																								
CODE				START	COMPLETE																							
1456	Aegis Ashore Missile Defense System Complex, Increment 2	1 EA	85,000	Sep 11	Jan 13																							
9. FUTURE PROJECTS: <table border="0"> <tr> <td>CATEGORY</td> <td>PROJECT TITLE</td> <td>SCOPE</td> <td>COST (\$000)</td> </tr> <tr> <td>CODE</td> <td></td> <td></td> <td></td> </tr> </table>											CATEGORY	PROJECT TITLE	SCOPE	COST (\$000)	CODE													
CATEGORY	PROJECT TITLE	SCOPE	COST (\$000)																									
CODE																												
10. MISSION OR MAJOR FUNCTIONS: The mission of the Missile Defense Agency 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.																												
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		FY 2014 MILITARY CONSTRUCTION PROJECT DATA				2. DATE Mar 2013	
3. INSTALLATION AND LOCATION Deveselu Base, Romania			4. PROJECT TITLE Aegis Ashore Missile Defense System Complex, Increment 2				
8. PROGRAM ELEMENT 0603892C		6. CATEGORY CODE 1456		7. PROJECT NUMBER MDA 646		8. PROJECT COST (\$000) 85,000	
9. COST ESTIMATES							
ITEM		U/M (M/E)		QUANTITY		UNIT COST	
PRIMARY FACILITIES						150,830	
Launch Area Infrastructure		EA		3		179,800 (539)	
HEMP Radar Deckhouse Support Bldg		m2 (SF)		2,703 (29,100)		9,903 (920) (26,772)	
Radar Deckhouse Foundation		m3 (CY)		268 (350)		1,569 (1,200) (420)	
Special Construction		LS				(980)	
Installed Equipment		LS				(4,050)	
HEMP Power Infrastructure		LS				(72,000)	
Non-HEMP Backup Power		LS				(5,500)	
Missile Storage Facility		m2 (SF)		111 (1,200)		9,903 (920) (1,104)	
Communications Equipment Pad		m2 (SF)		1,282 (13,800)		172 (16) (221)	
Secure Warehouse		m2 (SF)		242 (2,600)		5,382 (500) (1,300)	
Fire Station		m3 (SF)		585 (6,300)		6,189 (575) (3,623)	
Entry Control Facility		m2 (SF)		418 (4,500)		4,575 (425) (1,913)	
Central Security Control Facility		m2 (SF)		734 (7,900)		5,597 (520) (4,108)	
Security Fence/Gates/Lighting/ESS		LS				(5,500)	
Fuel System and Storage Facilities		BL (GA)		6,430 (200,000)		1,262 (20) (4,000)	
Temporary Facilities/Mob/Demob		LS				(18,800)	
SUPPORTING FACILITIES						44,600	
Site Electrical		LS				(800)	
Non-HEMP distribution		LS				(5,000)	
Power Distribution ductbank		LS				(11,000)	
Water, Sewer, Gas		LS				(3,200)	
Water Supply Building and Storage		LS				(4,800)	
Site Improvement/Demo		LS				(14,000)	
Pavements & Walkways		LS				(3,200)	
Information/Communication Systems		LS				(1,200)	
Antiterrorism/Force Protection		LS				(1,400)	
SUBTOTAL						195,430	
CONTINGENCY (5.00%)						9,771	
TOTAL CONTRACT COST						205,201	
SIOH (6.50%)						13,338	
DBA Insurance Costs						2,240	
TOTAL REQUEST						220,779	
TOTAL ROUNDED REQUEST						220,800	
INSTALLED EQUIPMENT-OTHER APPROP						(380,035)	
10. DESCRIPTION OF PROPOSED CONSTRUCTION: This project constructs an Aegis Ashore Missile Defense System site in Romania utilizing the Aegis shipboard weapon system; launcher, radar, and command and control components. Congress authorized the full amount of \$220.8M in the NDAA for FY13 and authorized appropriations of \$120.0M (MDA 630). The FY14 funding represents the second increment of this effort. The site will consist of three Mark-41 launcher foundations, aprons and crane pads; Radar Deckhouse 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; two 100,000 gallon fire water storage tanks and suppression pumps; central security control facility; entry control facility; electronic security							

1. COMPONENT MDA	FY 2014 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Mar 2013																										
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4. PROJECT TITLE Aegis Ashore Missile Defense System Complex, Increment 2		5. PROJECT NUMBER MDA 646																										
<p>11. REQUIRED (cont) :</p> <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 equipment and 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>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 updated based on 65% 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 Executive Order 12114, Environmental Effects Abroad of Major Federal Actions, will be completed prior to construction start.</p> <p>*-The RDT&E 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>																												
<p>12. SUPPLEMENTAL DATA:</p> <p>A. Estimated Design Data</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Date Design Started</td> <td>Sep 2011</td> </tr> <tr> <td>(b) Percent Complete as of January 2013</td> <td>100%</td> </tr> <tr> <td>(c) Date 35% Design Complete</td> <td>Apr 2012</td> </tr> <tr> <td>(d) Date Design Complete</td> <td>Jan 2013</td> </tr> <tr> <td>(e) Parametric Cost Estimating Used To Develop Cost</td> <td>No</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td>Design-Bid-Build</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <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 border="0"> <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 May 2013</p> <p>(5) Construction Start Jun 2013</p> <p>(6) Construction Completion Apr 2015</p>			(a) Date Design Started	Sep 2011	(b) Percent Complete as of January 2013	100%	(c) Date 35% Design Complete	Apr 2012	(d) Date Design Complete	Jan 2013	(e) Parametric Cost Estimating Used To Develop Cost	No	(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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1. COMPONENT MDA	FY 2014 MILITARY CONSTRUCTION PROJECT DATA		2. DATE Mar 2013
3. INSTALLATION AND LOCATION Deveselu Base, Romania			
4. PROJECT TITLE Aegis Ashore Missile Defense System Complex, Increment 2			5. PROJECT NUMBER MDA 646
12. SUPPLEMENTAL DATA (cont) :			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u>	FY <u>Appropriated or Requested</u>	Cost <u>\$(000)</u>
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
Extension of Commercial Power	RDT&E	FY/12/13	4,700
		SUB-TOTAL	4,700
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
		TOTAL RDT&E	380,035
<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 2014 MILITARY CONSTRUCTION PROJECT DATA			2. DATE Mar 2013	
3. INSTALLATION AND LOCATION Various Worldwide Locations			4. PROJECT TITLE Unspecified Minor Construction			
5. PROGRAM ELEMENT N/A		6. CATEGORY CODE N/A		7. PROJECT NUMBER N/A		8. PROJECT COST (\$000) 2,000
9. COST ESTIMATES						
ITEM			U/M	QUANTITY	UNIT COST	COST (\$000)
Unspecified Minor Construction			LS			2,000
ESTIMATED CONTRACT COST						2,000
CONTINGENCY PERCENT (0.0%)						
SUBTOTAL						2,000
SUPERVISION, INSPECTION & OVERHEAD (0.0%)						0
TOTAL REQUEST						2,000
TOTAL REQUEST (ROUNDED)						2,000
INSTALLED EQPT-OTHER APPROPRIATIONS						(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Provide a lump sum amount for unspecified construction projects, not otherwise authorized by law, having a funded cost of \$2 million or less, including normal construction, alteration or conversion of permanent or temporary facilities and projects having a funded cost of \$3 million or less that are intended solely to correct a deficiency that is life-threatening, health-threatening, or safety-threatening, in accordance with 10 USC Section 2805.						
11. REQUIREMENT: As required						
<p><u>REQUIREMENT:</u> These funds provide MDA the capability to react in FY 2014 to requirements for construction, alteration, or modification of facilities resulting from unforeseen situations affecting mission performance or safety of life or property. Included would be projects to support mission critical research and development requirements of the Ballistic Missile Defense System.</p>						

1. COMPONENT MDA		FY 2014 MILITARY CONSTRUCTION PROJECT DATA			2. DATE Mar 2013	
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) 10,891
9. COST ESTIMATES						
ITEM			U/M	QUANTITY	UNIT COST	COST (\$000)
Planning and Design			LS			10,891
ESTIMATED CONTRACT COST						10,891
CONTINGENCY PERCENT (0.0%)						0
SUBTOTAL						10,891
SUPERVISION, INSPECTION & OVERHEAD (0.0%)						0
TOTAL REQUEST						10,891
TOTAL REQUEST (ROUNDED)						10,891
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. REQUIREMENT: As required						
<p>REQUIREMENT: 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 2014, and accomplish planning and design for future projects with a long lead-time to be included in subsequent MDA Military Construction programs.</p>						