Missile Defense Agency
Military Construction, Defense-Wide
FY 2009 Budget Estimates
($ in thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Worldwide Unspecified				
Ballistic Missile Defense System				
European Interceptor Site (EIS)	661,380	132,600	N	158
Ballistic Missile Defense System				
European Mid-Course Radar (EMR)	176,100	108,560	N	166
Various Locations				
Ballistic Missile Defense System				
Army-Navy/Transportable Radar				
Surveillance-2 #3	25,500	25,500	N	162
Total	**862,980**	**266,660**		

1. COMPONENT	FY 2009 MILITARY CONSTRUCTION PROGRAM	2. DATE
MDA		February 2008

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONSTR. COST INDEX
Worldwide Unspecified	Missile Defense Agency	

6. PERSONNEL	PERMANENT			STUDENTS			SUPPORTED			
STRENGTH: N/A	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 FY2009	.....	661,380
E. AUTHORIZATION REQUESTED IN THE FY2010	.....	0
F. PLANNED IN NEXT THREE PROGRAM YEARS	.....	0
G. REMAINING DEFICIENCY	.....	0
H. GRAND TOTAL	.....	661,380

8. PROJECTS REQUESTED IN THE FY2009 PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
312	European Interceptor Site	LS	661,380	2/08	4/09

(Single Year Authorization, Multi-year Appropriation Requested, Appropriation FY09 $132.6M , FY10 $528.780M

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
	NONE		

10. MISSION OR MAJOR FUNCTIONS: The mission of the Missile Defense Agency is to develop and field an integrated Ballistic Missile Defense System capable of providing a layered defense for the homeland, deployed forces, friends, and allies against ballistic missiles of all ranges in all phases of flight. This project is required to provide a European component of the Ground Based Missile Defense system to incrementally improve MDA's ability to protect the US Homeland, Allies and US Deployed Forces.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

A. Air Pollution: N/A

B. Water Pollution: N/A

C. Occupational Safety and Health (OSH): N/A

DD FORM 1390

1. COMPONENT	FY 2009 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		February 2008

3. INSTALLATION AND LOCATION6	4. PROJECT TITLE
Worldwide Unspecified	Ballistic Missile Defense System, European Interceptor Site (EIS)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0603882C	312	MDA 602	Authorization 661,380 Appropriation 132,600

9. COST ESTIMATES

ITEM	U/M (M/E)	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				433,129
Admin & Maintenance Facility	m2(SF)	10,630(114,416)	2,228(207)	(23,684)
Logistics Warehouse Facility	m2(SF)	11,461(123,345)	904(84)	(10,361)
Receiving Facility	m2(SF)	3,275 (35,250)	904(84)	(2,961)
Primary & Backup Power	KW	153,307	879	(134,757)
BCSC Facility (Dual Antenna)	m2(SF)	3,238(34,856)	6,245(580)	(20,222)
Total from Continuation pages				(260,237)
SUPPORTING FACILITIES				139,217
Site Preparation	LS	-	-	(26,072)
Site Improvements/Roads	LS	-	-	(16,841)
Site Civil/Mechanical Utilities	LS	-	-	(49,889)
Site Electrical Utilities	LS	-	-	(30,141)
Mobilization/Demobilization	LS	-	-	(16,274)
SUBTOTAL				591,439
CONTINGENCY (5.0%)				29,575
SUBTOTAL				621,014
SUPERVISION, INSPECTION/OH (6.5%)				40,366
TOTAL CONTRACT COST				661,380
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(845,800)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: This is a single year authorization request with multi-year appropriations. Due to the complex nature and overall cost of this project, it will be executed with incremental funding with Military Construction appropriations. The FY 2009 request is for an appropriation of $132.6 million. This project extends and enhances the Ballistic Missile Defense System (BMDS) Ground-Based Mid-course Defense (GMD) Test Bed and Limited Defensive Operations (LDO) Capabilities program at various world-wide locations as part of the BMDS Block 4.0. This project provides an expanded GMD system and a GMD Battle Management Fire Control and Communication (GBMFC2) In-Flight Interceptor Communications System (IFICS) Data Terminal OCONUS. Supporting facilities include: water, sewer, gas and electric service; paving, walks, curbs and gutters; storm drainage; fire protection and alarm systems; site improvements; physical security; and telecommunications systems. Access for the handicapped will be provided.

11. REQUIRED: 1 EA ADQT: NONE SUBSTD: NONE

PROJECT: Construct a GMD system OCONUS to provide an additional layer of defense with increased capabilities consistent with Missile Defense Agency's (MDA) BMDS Block 4.0.

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1. COMPONENT	FY 2009 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		February 2008

3. INSTALLATION AND LOCATION
Worldwide Unspecified

4. PROJECT TITLE:	5. PROJECT NUMBER
Ballistic Missile Defense System, European Interceptor Site (EIS)	MDA 602

9. COST ESTIMATES (CONTINUED)

Item	U/M	QUANTITY	Unit COST	Cost (000)
PRIMARY FACILITIES (CONTINUED)				260,237
EKV Fuel Storage Buildings	m2(SF)	386(4,151)	5,615(522)	(2,167)
EKV Oxidizer Storage Building	m2(SF)	386(4,151)	5,615(522)	(2,167)
Entry Control Station	m2(SF)	4,167(44,854)	1,184(110)	(4,934)
FOC Termination Building	m2(SF)	1,767(19,017)	1,819(169)	(3,214)
Fuel Unloading & Storage Facilities	m2(SF)	5,170(55,464)	1,481(138)	(7,654)
Mechanical-Electrical Building	m2(SF)	12,616(135,399)	1,481(138)	(18,685)
Interceptor Launch Silos	EA	10	7,294,900	(72,949)
Interceptor Monitoring Facility	m2(SF)	5,088(54,769)	3,584(333)	(18,238)
Security Monitoring & Response Fac	m2(SF)	3,815(41,072)	1,195(111)	(4,559)
Missile Storage Igloos	m2(SF)	1,012(10,890)	3,508(326)	(3,550)
Water Supply Building	GAL	3,809,500	2	(7,619)
Electronic Security System	LS			(20,344)
Physical Security	LS			(10,688)
Security System Level-A Protection	LS			(79,527)
Relocatable IDT (HEMP's)	m2(SF)	632(6,798)	624(580)	(3,942)

11. REQUIRED: (continued)

REQUIREMENT: This project is required to provide a complete GMD system capability OCONUS designed to incrementally improve MDA's ability to protect the US Homeland, Allies, and US deployed forces. (New Mission)

CURRENT SITUATION: Missile Defense Agency is developing a Ballistic Missile Defense System (BMDS) to ensure operational equipment and missiles adequately meet technological and threat assessments. This project continues GMD execution of systematic spiral development and evolutionary acquisition through incremental capability enhancements. This project supplements the GMD existing fielded system for the BMDS and will enhance the ballistic missile defense of the United States, its allies, and US deployed forces.

IMPACT IF NOT PROVIDED: If this project is not provided, planned enhancements of the GMD element in support of MDA's BMDS will not be available for defensive operations. Ultimately, the full potential to defend the United States and its allies against limited ballistic missile attack under LDO will not be achieved.

ADDITIONAL INFORMATION: Cost estimates are based on parametric estimates and similar experience gained during the construction of GMD Test Bed and Capability Enhancement / Limited Defensive Operations facilities at Fort Greely, Alaska. This project is being coordinated with the appropriate physical security plans, and required physical security and/or combating terrorism measure are being included. All requirements of EO 12114, Environmental Effects Abroad of Major Federal Actions, will be completed prior to start of construction.

1. COMPONENT	FY 2009 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		February 2008

3. INSTALLATION AND LOCATION
Worldwide Unspecified

4. PROJECT TITLE:	5. PROJECT NUMBER
Ballistic Missile Defense System, European Interceptor Site (EIS)	MDA 602

12. SUPPLEMENTAL DATA:

A. Design Data (Estimates)

(1) Status	
(a) Date Design Started	FEB 2008
(b) Date 35% Design	JUL 2008
(c) Date Design Complete	APR 2009
(d) Parametric Cost Estimating Used to Develop Costs	Yes
(e) Type of Design Contract	Design-Bid-Build
(2) Basis	
(a) Standard or Definitive Design	Yes
(b) Where Design was most recently used	Fort Greely, AK
(3) Total Design Cost (000)	
(a) Production of Plans and Specifications	$ 31,083
(b) All other Design Costs	$ 26,917
(c) Total Costs (c)= (a)+(b) or (d)+(e)	$ 58,000
(d) Contract	$ 52,900
(e) In-house	$ 5,100
(4) Construction Contract Award Date	APR 2009
(5) Construction Start Date	JUL 2009
(6) Construction Complete Date	FEB 2012

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

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriation Or Requested	Cost ($000)
RIDT/GBI Launch Equipment	RDT&E	2008	48,400
Communication Equip	RDT&E	2008	10,900
RIDT/GBI Launch Equipment	RDT&E	2009	170,400
Communication Equip	RDT&E	2009	26,200
RIDT/GBI Launch Equipment	RDT&E	2010	242,800
Communication Equip	RDT&E	2010	60,000
RIDT/GBI Launch Equipment	RDT&E	2011	185,500
Communication Equip	RDT&E	2011	27,700
RIDT/GBI Launch Equipment	RDT&E	2012	50,800
Communication Equip	RDT&E	2012	800
RIDT/GBI Launch Equipment	RDT&E	2013	17,600
Communication Equip	RDT&E	2013	4,700
		TOTAL EQUIPMENT COST	$845,800

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DD FORM 1391c

1. COMPONENT	FY 2009 MILITARY CONSTRUCTION PROGRAM	2. DATE
MDA		February 2008

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONSTR. COST INDEX
Various Locations	Missile Defense Agency	

6. PERSONNEL	PERMANENT			STUDENTS			SUPPORTED			
STRENGTH: N/A	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 FY2009	.....	25,500
E. AUTHORIZATION REQUESTED IN THE FY2010	.....	0
F. PLANNED IN NEXT THREE PROGRAM YEARS	.....	0
G. REMAINING DEFICIENCY	.....	0
H. GRAND TOTAL	.....	25,500

8. PROJECTS REQUESTED IN THE FY2009 PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
312	AN/TPY-2 #3	LS	25,500	3/09	9/09

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
	NONE		

10. MISSION OR MAJOR FUNCTIONS: This project is to construct a new OCONUS radar site to host the Forward Based X-Band Radar, designated as AN/TPY-2, radar components and support infrastructure and enhance critical communication nodes for the Ballistic Missile Defense System operations against potential threat trajectories.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

A. Air Pollution: N/A

B. Water Pollution: N/A

C. Occupational Safety and Health (OSH): N/A

DD FORM 1390

1. COMPONENT	FY 2009 MILCON CONSTRUCTION PROJECT DATA	2. DATE
MDA		February 2008

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Various Locations	Ballistic Missile Defense System, Army-Navy/Transportable Radar Surveillance-2 #3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0603884C	312	MDA 606	25,500

9. COST ESTIMATES

ITEM	U/M (M/E)	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				18,731
AN/TPY-2 Infrastructure	LS	-	-	(3,488)
AN/TPY-2 Berm	EA	1	1,154,000	(1,154)
BMDS Communications Support Complex	m2(SY)	2,688(3,210)	320(268)	(860)
Fuel Storage Facility	m2(SF)	125(1,342)	4,169(388)	(521)
Security Infrastructure	LS	-	-	(6,451)
Communications (Ka Band) Enhancements	LS	-	-	(6,257)
SUPPORTING FACILITIES				4,071
Electric Service	LS	-	-	(473)
Water, Sewer, Gas	LS	-	-	(450)
Paving, Walks, Curbs and Gutters	LS	-	-	(541)
Site Imp (779)/Demo (000)	LS	-	-	(741)
Other (Mob/Demob)	LS	-	-	(1,866)
SUBTOTAL				22,803
CONTINGENCY (5.0%)				1,141
SUBTOTAL				23,944
SUPERVISION, INSPECTION/OH (6.5%)				1,556
TOTAL CONTRACT COST				25,500
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(142,400)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: This project constructs an OCONUS site that will support the forward based X-band radar, designated Army-Navy/Transportable Radar Surveillance-2 (AN/TPY-2). It constructs hardstand for the AN/TPY-2 components, Antenna Equipment Unit, Electronic Equipment Unit, and Cooling Equipment Unit along with a Power Distribution System, communications network, UHF/SATCOM interface, shelters for security, administration, maintenance and storage, radar support, power generators, frequency converters and switchgear, fuel storage, commercial connection, road access, and security/lighting (classified storage and equipment security). Additionally, nodes at Fort Greely, Alaska, Wahiawa, Hawaii and Vandenberg Air Force Base, California, will be enhanced for the purpose of command, control and communications. Supporting facilities include: water, sewer, gas and electric service; paving, walks, curbs and gutters; storm drainage; fire protection and alarm systems; site improvements; physical security; and telecommunications systems. Access for the handicapped will be provided.

11. REQUIRED: 1 EA ADQT: NONE SUBSTD: NONE

PROJECT: Construct a new OCONUS radar site to host the AN/TPY-2, radar components and support infrastructure and enhance critical communications nodes for the Ballistic Missile Defense System operations against potential threat trajectories. (New Mission)

DD FORM 1391

1. COMPONENT	FY 2009 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		February 2008

3. INSTALLATION AND LOCATION
Various Locations

4. PROJECT TITLE:	5. PROJECT NUMBER
Ballistic Missile Defense System, Army-Navy/Transportable Radar Surveillance-2 #3	MDA 606

11. REQUIRED: (continued)

REQUIREMENT: This project is required as part of BMDS Block 5.0 to provide a layered sensors network in support of the Ballistic Missile Defense System (BMDS) mission to defend the United States and Allies. The radar is a key element in layered defense system designed to detect and engage ballistic missiles. The sensor, AN/TPY-2, detects, tracks and discriminates threats launched toward the Allies and US deployed forces from short-to-intermediate range threats. The radar sends the track data to the BMDS C2BMC element for control of interception in the mid course phase. The AN/TPY-2 requires adequate radar and support facilities, as well as supporting infrastructure, for long range viewing of potential threats. Critical communications nodes require enhancement. (New Mission)

CURRENT SITUATION: Missile Defense Agency is developing a Ballistic Missile Defense System (BMDS) to ensure operational equipment and missiles adequately meet technological and threat assessments. There are no prepared sites available for this radar. This project will enhance the ballistic missile defense of Allies and US deployed forces from short-to-intermediate range threats.

IMPACT IF NOT PROVIDED: If this project is not provided, planned enhancements of the Sensor element in support of MDA's BMDS will not be available for defensive operations. This will limit the performance of a layered sensors network for the Ballistic Missile Defense of Allies and US deployed forces from short-to-intermediate range threats.

ADDITIONAL INFORMATION: Cost estimates are based on parametric estimates and similar experience gained during the construction of a similar Forward Based X-Band Radar at Shariki, Japan. This project is being coordinated with the appropriate physical security plans, and required physical security and/or combating terrorism measure are being included. All requirements of EO 12114, Environmental Effects Abroad of Major Federal Actions, will be completed prior to start of construction. It is assumed that this activity will be conducted on a host nation installation that will provide the first line of defense.

DD FORM 1391c

1. COMPONENT	FY 2009 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		February 2008

3. INSTALLATION AND LOCATION
Various Locations

4. PROJECT TITLE:	5. PROJECT NUMBER
Ballistic Missile Defense System, Army-Navy/Transportable Radar Surveillance-2 #3	MDA 606

12. SUPPLEMENTAL DATA:

A. Design Data (Estimates)

(1) Status	
(a) Date Design Started	MAR 2009
(b) Date 35% Design	MAY 2009
(c) Date Design Complete	SEP 2009
(d) Parametric Cost Estimating Used to Develop Costs	Yes
(e) Type of Design Contract	Design-Bid-Build
(2) Basis	
(a) Standard or Definitive Design	Yes
(b) Where Design was most recently used	Shariki, Japan
(3) Total Design Cost (000)	
(a) Production of Plans and Specifications	$ 2,173
(b) All other Design Costs	$ 1,927
(c) Total Costs (c)= (a)+(b) or (d)+(e)	$ 4,100
(d) Contract	$ 2,870
(e) In-house	$ 1,230
(4) Construction Contract Award Date	SEP 2009
(5) Construction Start Date	JAN 2010
(6) Construction Complete Date	JAN 2011

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

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriation Or Requested	Cost ($000)
Sensor Equipment	RDT&E	2007	13,000
Communication Equip	RDT&E	2007	55,300
Sensor Equipment	RDT&E	2009	8,000
Communication Equip	RDT&E	2009	45,700
Power Generation	RDT&E	2009	17,400
Communication Equip	RDT&E	2010	3,000
		TOTAL EQUIPMENT COST	$142,400

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DD FORM 1391c

1. COMPONENT MDA	FY 2009 MILITARY CONSTRUCTION PROGRAM	2. DATE February 2008
3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONSTR. COST INDEX

6. PERSONNEL STRENGTH: N/A	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 FY2009	.....	176,100
E. AUTHORIZATION REQUESTED IN THE FY2010	.....	0
F. PLANNED IN NEXT THREE PROGRAM YEARS	.....	0
G. REMAINING DEFICIENCY	.....	0
H. GRAND TOTAL	.....	176,100

8. PROJECTS REQUESTED IN THE FY2009 PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
312	European Mid-Course Radar	LS	176,100	8/08	8/09

(Single Year Authorization, Multi-year Appropriation Requested, Approp FY09 $108,560 and FY10 $67,540)

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
	NONE		

10. MISSION OR MAJOR FUNCTIONS: This project is to construct a new OCONUS radar site to host the OCONUS European Mid-Course Radar and support infrastructure for the BMDS Block 4.0 operations against potential threat trajectories.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

A. Air Pollution: N/A

B. Water Pollution: N/A

C. Occupational Safety and Health (OSH): N/A

DD FORM 1390

1. COMPONENT	FY 2009 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		February 2008

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Worldwide Unspecified	Ballistic Missile Defense System, European Mid-Course Radar (EMR)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0603884C	312	MDA 604	Authorization 176,100 Appropriation 108,560

9. COST ESTIMATES

ITEM	U/M (M/E)	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				106,059
Mid-Course Radar/Maintenance Fac	m2(SF)	15,869(170,847)	2,390(222)	(37,928)
Power Plant	KW	35,840	942	(33,762)
Security/Entry Control Facility	m2(SF)	2,236(24,067)	1,281(119)	(2,864)
Fuel Unload & Storage Facility	m2(SF)	1,962(21,115)	1,593(148)	(3,125)
Electronic/Physical Security	LS	-	-	(10,849)
BMDS Communication Support Complex	m2(SF)	2,618(28,185)	6,696(622)	(17,531)
SUPPORTING FACILITIES				51,394
Electric Service	LS	-	-	(13,300)
Water, Sewer, Gas	LS	-	-	(12,852)
Paving, Walks, Curbs and Gutters	LS	-	-	(9,280)
Site Imp (9,991)/Demo (000)	LS	-	-	(10,312)
Other (Mob/Demob)	LS	-	-	(5,650)
SUBTOTAL				157,453
CONTINGENCY (5.0%)				7,872
SUBTOTAL				165,325
SUPERVISION, INSPECTION/OH (6.5%)				10,746
TOTAL CONTRACT COST				176,071
TOTAL REQUEST ROUNDED				176,100
EQUIPMENT OTHER APPROPRIATIONS (NON-ADD)				(244,200)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: This project constructs a site that will support the European Mid-Course X-Band Radar (EMR) OCONUS as part of BMDS Block 4.0. Due to the complex nature and overall cost of this project, it will be executed with incremental funding. The initial request is for an FY 2009 appropriation of $108.56 million. This project constructs a fixed site to support the EMR, with a single operations, maintenance and storage facility, BMDS Communications Support Complex (BCSC), security and entry control facility, power plant, fuel unload & storage, and all supporting infrastructure including security/lighting (classified storage and equipment security). Supporting facilities include: water, sewer, gas and electric service; paving, walks, curbs and gutters; storm drainage; fire protection and alarm systems; site improvements; physical security; and telecommunications systems. Access for the handicapped will be provided.

11. REQUIRED: 1 EA ADQT: NONE SUBSTD: NONE

PROJECT: Construct a new radar site to host the European Mid-Course X-Band Radar OCONUS and support infrastructure for the BMDS Block 4.0 operations against potential threat trajectories. (New Mission)

REQUIREMENT: This project is required to supplement a multi-layered sensor network in support of the Ballistic Missile Defense System (BMDS) mission to defend the United States, allies, and deployed troops. The radars are key elements of BMDS Block 4.0 and provide a multi-layered defense system designed to detect and engage ballistic missiles. The EMR, an X-Band Radar, detects, tracks, and discriminates threats launched toward the United States, Allies and deployed forces. The radar sends the track data to facilitate interception in the mid-course phase.

DD FORM 1391

1. COMPONENT	FY 2009 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		February 2008

3. INSTALLATION AND LOCATION
Worldwide Unspecified

4. PROJECT TITLE:	5. PROJECT NUMBER
Ballistic Missile Defense System, European Mid-Course Radar (EMR)	MDA 604

11. REQUIRED: (continued)

REQUIREMENT: (continued) The European Mid-Course Radar requires adequate facilities, as well as supporting infrastructure, for long range viewing of potential threats. (New Mission)

CURRENT SITUATION: Missile Defense Agency is developing a Ballistic Missile Defense System (BMDS) to ensure operational equipment and missiles adequately meet technological and threat assessments. There are no prepared sites in EUCOM available for the radar. This project will enhance the ballistic missile defense of the United States, Allies and deployed forces.

IMPACT IF NOT PROVIDED: If this project is not provided, planned enhancements of the Sensor element in support of MDA's BMDS will not be available for defensive operations. This will limit the performance of a multi-layered sensor network for the Ballistic Missile Defense of the United States, Allies and deployed forces.

ADDITIONAL INFORMATION: Cost estimates are based on parametric estimates and similar experience gained during the construction of Test Bed and Capability Enhancement / Limited Defensive Operations facilities in Alaska. This project is being coordinated with the appropriate physical security plans. Required physical security and/or combating terrorism measures will be included. All requirements of EO 12114, Environmental Effects Abroad of Major Federal Actions, will be completed prior to start of construction.

12. SUPPLEMENTAL DATA:

A. Design Data (Estimates)	
(1) Status	
(a) Date Design Started	AUG 2008
(b) Date 35% Design	FEB 2009
(c) Date Design Complete	AUG 2009
(d) Parametric Cost Estimating Used to Develop Costs	Yes
(e) Type of Design Contract	Design-Bid-Build
(2) Basis	
(a) Standard or Definitive Design	Yes
(b) Where Design was most recently used	Eareckson Air Base, AK
(3) Total Design Cost (000)	
(a) Production of Plans and Specifications	$ 6,656
(b) All other Design Costs	$ 6,144
(c) Total Costs (c)= (a)+(b) or (d)+(e)	$ 12,800
(d) Contract	$ 10,900
(e) In-house	$ 1,900
(4) Construction Contract Award Date	SEP 2009
(5) Construction Start Date	DEC 2009
(6) Construction Complete Date	AUG 2011

DD FORM 1391c

1. COMPONENT	FY 2009 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		February 2008

3. INSTALLATION AND LOCATION
Worldwide Unspecified

4. PROJECT TITLE:	5. PROJECT NUMBER
Ballistic Missile Defense System, European Mid-Course Radar (EMR)	MDA 604

12. SUPPLEMENTAL DATA: (continued)

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

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriation Or Requested	Cost ($000)
Sensor Equipment	RDT&E	2007	3,400
Sensor Equipment	RDT&E	2008	17,400
Communication Equip	RDT&E	2008	8,000
Sensor Equipment	RDT&E	2009	46,100
Communication Equip	RDT&E	2009	21,900
Sensor Equipment	RDT&E	2010	42,700
Communication Equip	RDT&E	2010	56,600
Sensor Equipment	RDT&E	2011	16,000
Communication Equip	RDT&E	2011	26,500
Communication Equip	RDT&E	2012	800
Communication Equip	RDT&E	2013	4,700
	TOTAL EQUIPMENT COST		$244,200

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