

**FY 2001 MILITARY CONSTRUCTION, DEFENSE-WIDE**  
**(\$ in Thousands)**

<b><u>State/Agency/Installation/Project</u></b>	<b><u>Authorization Request</u></b>	<b><u>Approp. Request</u></b>	<b><u>New/ Current Mission</u></b>	<b><u>Page No.</u></b>
<b>Unspecified Worldwide Locations</b>				
National Missile Defense Initial Deployment Facilities	451,135	85,095	N	2
<b>Total</b>	<b>451,135</b>	<b>85,095</b>		

<b>1. COMPONENT</b> BMDO		<b>FY 2001 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE</b> Feb 2000		
<b>3. INSTALLATION AND LOCATION</b> Various Worldwide Locations					<b>4. COMMAND</b> BALLISTIC MISSILE DEFENSE ORGANIZATION			<b>5. AREA CONSTR. COST INDEX</b> Various		
<b>6. PERSONNEL</b> STRENGTH:		PERMANENT			STUDENTS			SUPPORTED		
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN
A.	AS OF	N/A								
B.	END	N/A								
<b>7. INVENTORY DATA (\$000)</b>										
A. TOTAL AREA		0 ha			(0 AC)					
B. INVENTORY TOTAL AS OF								N/A		
C. AUTHORIZATION NOT YET IN INVENTORY								N/A		
D. AUTHORIZATION REQUESTED IN THE FY2001								451,135		
E. AUTHORIZATION REQUESTED IN THE FY2002										
F. PLANNED IN NEXT THREE PROGRAM YEARS										
G. REMAINING DEFICIENCY								0		
H. GRAND TOTAL								451,000		
<b>8. PROJECTS REQUESTED IN THE FY2001 PROGRAM:</b>										
CATEGORY		PROJECT TITLE				COST		DESIGN STATUS		
CODE						(\$000)		START		COMPLETE
141		NMD Initial Deployment Facs, Ph I				85,095		Mar 99		Jun 00
<b>9. FUTURE PROJECTS:</b>										
CATEGORY		PROJECT TITLE				COST				
CODE						(\$000)				
A. REQUESTED IN FY 2002										
141		NMD Initial Deployment Facs, Ph II				189,900				
					TOTAL		189,900			
B. PLANNED NEXT THREE YEARS										
141		NMD Initial Deployment Facs, Ph III				124,400				
141		NMD Initial Deployment Facs, Ph IV				36,300				
141		NMD Initial Deployment Facs PH V				15,300				
					TOTAL		176,000			
<b>10. MISSION OR MAJOR FUNCTIONS:</b> Development, deployment and operation of the National Missile Defense (NMD) system.										
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:</b>										
A. Air Pollution:								0		
B. Water pollution:								0		
C. Occupational safety and health (OSH):								0		

<b>1. COMPONENT</b> BMDO		<b>FY 2001 MILITARY CONSTRUCTION PROJECT DATA</b>			<b>2. DATE</b> Feb 2000		
<b>3. INSTALLATION AND LOCATION</b> Various Worldwide Locations				<b>4. PROJECT TITLE</b> NMD Initial Deployment Facilities, Ph I			
<b>5. PROGRAM ELEMENT</b> 0603871C		<b>6. CATEGORY CODE</b> 141		<b>7. PROJECT NUMBER</b> BMDO 53359		<b>8. PROJECT COST (\$000)</b> Auth 451,135 Approp 85,095	
<b>9. COST ESTIMATES</b>							
ITEM				U/M	QUANTITY	UNIT COST	COST (\$000)
<b>PRIMARY FACILITIES</b>							295,202
X-Band Radar (XBR) Facility				m2	6,425	7,853.70	(50,460)
XBR Power Plant				m2	3,783	12,545.86	(47,461)
XBR Fire Protection System				EA	2.0	4,835,000	(9,670)
XBR Fuel Storage Tanks				KL	18,170	301.16	(5,472)
XBR Add/Alt Unaccompanied Hsg/Admin				LS			(4,909)
Total from Continuation pages							(177,230)
<b>SUPPORTING FACILITIES</b>							128,399
Electric Service				LS			(38,860)
Water, Sewer, Gas				LS			(21,402)
Paving, Walks, Curbs and Gutters				LS			(23,901)
Site Imp (17,242) /Demo ( )				LS			(17,242)
Information Systems				LS			(1,260)
Antiterrorism Force Protection				LS			(10,121)
Other				LS			(15,613)
<b>ESTIMATED CONTRACT COST</b>							423,601
CONTINGENCY PERCENT (0%)							0
SUBTOTAL							423,601
SUPERVISION, INSPECTION & OVERHEAD (6.5 %)							27,534
TOTAL REQUEST							451,135
INSTALLED EQPT-OTHER APPROPRIATIONS							(162,000)

**10. DESCRIPTION OF PROPOSED CONSTRUCTION:** Construct National Missile Defense (NMD) tactical and tactical-support facilities at various sites. Single year authorization with multi-year appropriation is required due to the complex nature and overall cost of this project. This request is for \$85.1 million in FY 2001. Additional planned requests are: \$189.9 million for FY2002; \$124.4 million for FY2003; \$36.3 million for FY2004 and \$15.3 million in FY2005. This project is for the initial deployment of the NMD system which includes a single NMD X-Band Radar (XBR) Complex, a single NMD Ground-Based Interceptor (GBI) Missile Launch Complex, and a series of NMD Battle Management, Command, Control and Communications (BMC3) sites with dispersed In-Flight Interceptor Communications Data Terminals (IDTs). The XBR Complex facilities include a Radar Operations Facility with adjoining antenna mount tower, a 12.6 Megawatt Power Plant, Fuel Oil Storage Tanks, a Fire Protection System, and alterations to existing unaccompanied personnel housing and administration areas. Mission critical facilities are provided with shielding against the effects of High-altitude ElectroMagnetic Pulse (HEMP) and with collective Chemical, Biological, and Radiological (CBR) protective measures. Supporting facilities include normal utilities, buried shielded power and communications lines, security systems, and site infrastructure. The GBI Missile Launch Complex facilities include a missile field, Missile Storage Igloos, a Missile Processing Building, a Site Support Building, a Readiness Station/BMC3, a Headquarters Building, a Security Building, an Entry Control Station, a 5.0 Megawatt Power Plant, and Fuel Oil Storage Tank. Mission critical facilities are

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<b>1. COMPONENT</b> BMDO	<b>FY 2001 MILITARY CONSTRUCTION PROJECT DATA</b>	<b>2. DATE</b> Feb 2000
<b>3. INSTALLATION AND LOCATION</b> Various Worldwide Locations		
<b>4. PROJECT TITLE</b> NMD Initial Deployment Facilities, Ph I	<b>5. PROJECT NUMBER</b> BMDO 53359	

9. **COST ESTIMATES (CONTINUED)**

<u>Item</u>	<u>U/M</u>	<u>Qty</u>	<u>Unit COST</u>	<u>Cost (000)</u>
<b>PRIMARY FACILITIES (CONTINUED)</b>				<b>177,230</b>
XBR Building Information Systems	LS			(766)
GBI Missile Launch Silo	EA			(64,162)
GBI Mechanical-Electrical Building	m2	1,114	6,293.54	(7,011)
GBI Missile Storage Igloo	EA			(8,828)
GBI Missile Processing Building	m2	693	3,535.35	(2,450)
GBI Site Support Building	m2	4,827	3,003.11	(14,496)
GBI Readiness Station/BMC3	m2	2,389	7,524.07	(17,975)
GBI Headquarters	m2	1,402	3,977.18	(5,576)
GBI Security Building	m2	1,075	4,656.74	(5,006)
GBI Entry Control Station	m2	379	3,994.72	(1,514)
GBI Power Plant	m2	3,667	8,562.04	(31,397)
GBI Fuel Storage Tank	KL	644	1,377.33	(887)
GBI Fire Protection System	LS			(6,574)
GBI Building Information Systems	LS			(882)
BMC3 IDT Sites	LS			(9,706)

Description of Proposed Construction: (CONTINUED)

provided with shielding against HEMP effects and with collective CBR protection measures. Supporting facilities include normal utilities, buried shielded power and communications lines, security systems, and site infrastructure. The BMC3 facilities includes the construction of multiple facilities at dispersed locations to accommodate the installation of IDTs. Shielding against the effects of HEMP is provided for the facilities. Supporting facilities include utilities, communications lines, security systems and site infrastructure.

**11. REQ:** 1 EA ADQT: NONE SUBSTD: NONE

**PROJECT:** Construct launch, operations, maintenance, and tactical support facilities for the National Missile Defense (NMD) system.

**REQUIREMENT:** This project is required to support the deployment of the NMD system. Congress has directed that the NMD system be deployed as soon as technologically feasible. This project constructs Phase I deployment of the NMD tactical and tactical support facilities associated with the NMD system elements -- X-Band Radar and GBI Missile Field Complex. These NMD system elements are critical to providing the United States with a limited missile defense capability.

**CURRENT SITUATION:** The Ballistic Missile Defense Organization (BMDO) is developing an NMD system and planning for its deployment based on technological and threat assessments. Currently no facilities exist that are capable of supporting the operating requirements of the NMD system elements.

**IMPACT IF NOT PROVIDED:** If this project is not provided, BMDO will not be able to deploy an NMD system as soon as technologically feasible. The capability to protect against a limited missile attack from rogue nations will not be achieved.

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1. COMPONENT

**FY 2001 MILITARY CONSTRUCTION PROJECT DATA**

2. DATE

Feb 2000

BMDO

3. INSTALLATION AND LOCATION

Various Worldwide Locations

**4. PROJECT TITLE**

NMD Initial Deployment Facilities, Ph I

**5. PROJECT NUMBER**BMDO  
53359

**ADDITIONAL INFORMATION:** Cost estimates are based upon 35% design for the XBR Site and GBI Missile Field Complex, parametric estimates have been used to develop BMC3 cost. This project is being coordinated with the installation physical security plan, and all required physical security and/or combating terrorism (CBT/T) measures are being included. Environmental analysis is being accomplished. Project specific environmental documentation is being prepared as necessary.

## 12. Supplemental Data:

## A Estimated Design Date

## (1) Status

(a) Date Design Started:	Mar 1999
(b) Percent Complete As of January 2000	35%
(c) Date 35% Designed	Nov 1999
(d) Date Design Complete:	Jun 2000
(e) Parametric Cost Estimating Used to Develop Costs	YES

## (2) Basis of Design

(a) Standard or Definitive Design	NO
(b) Where Design was most recently used:	

## (3) Total Cost (000) (c)= (a)+(b) or (d)+(e)

(a) Production of Plans and Specifications:	27,300
(b) All other Design Costs:	13,600
(c) Total Design Costs	40,900
(d) Contract	27,400
(e) In-house	13,500

(4) Construction Start	Apr 2001
(5) Construction Complete	Jun 2006

b. Installed Equipment-Other Appropriations (\$000)	162,000
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