Missile Defense Agency

Fiscal Year 2021

President's Budget Submittal

Military Construction Exhibit



Feb 2020

MISSILE DEFENSE AGENCY FY 2021 MILITARY CONSTRUCTION PRESIDENT'S BUDGET SUBMITTAL DESCRIPTIVE SUMMARIES

(\$ in Thousands)

<u>Program</u>	Authorization	Appropriation
Major Construction	48,000	48,000
Unspecified Minor Construction	4,922	4,922
MILCON Planning & Design	0	0
TOTAL MILITARY CONSTRUCTION	52,922	52,922

MISSILE DEFENSE AGENCY FY 2021 MILITARY CONSTRUCTION PROJECT SUMMARY BY LOCATION

(\$ in Thousands)

State/Installation/Project	Auth <u>Request</u>	Approp <u>Request</u>	New/ Current <u>Mission</u>	Page <u>No.</u>
Major Construction				
Alaska Fort Greely Communications Center	48,000	48,000	N	
Unspecified Minor Construction	4,922	4,922		
MILCON Planning and Design	0	0		
TOTAL MILITARY CONSTRUCTION	52,922	52,922		

1. COMPONENT 2. DATE FY 2021 MILITARY CONSTRUCTION PROGRAM DEF (MDA) Feb 2020 3. INSTALLATION AND LOCATION 4. COMMAND 5. AREA CONTRUCTION **COST INDEX** Fort Greely, Alaska Missile Defense Agency 2.53 6. PERSONNEL (1) PERMANENT (2) STUDENTS (3) SUPPORTED N/A: Tenant of U.S. Army (4) TOTAL OFFICER ENLISTED OFFICER ENLISTED CIVILIAN ENLISTED CIVILIAN OFFICER CIVILIAN b. AS OF YYYMMDD 0 b. END FY 0 7. INVENTORY DATA (\$000) a. TOTAL ACREAGE (acre) 0.00 b. INVENTORY TOTAL AS OF YYYMMDD 0.00 c. AUTHORIZATION NOT YET IN INVENTORY 0.00 d. AUTHORIZATION REQUESTED IN THIS PROGRAM 48,000.00 e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM 0.00 f. PLANNED IN NEXT THREE PROGRAM YEARS 0.00 g. REMAINING DEFICIENCY 0.00 h. GRAND TOTAL 48,000.00 8. PROJECTS REQUESTED IN THIS PROGRAM a. CATEGORY c. DESIGN STATUS b. COST (\$000) (1) CODE (2) PROJECT TITLE (3) SCOPE (1) START (2) COMPLETE 48,000 13120 Mar 2019 Communications Center 11,500 sf Oct 2020 9. FUTURE PROJECTS 10. MISSION OR MAJOR FUNCTIONS The mission of the Missile Defense Agency (MDA) is to develop and deploy a layered Missile Defense System (MDS) to defend the United States, its deployed forces, allies, and friends from missile attacks in all phases of flight. The Fort Greely Communication Center project is required to support the Warfighter mission and enhance homeland defense from emerging threats. Improved communications capabilities are required to support expansion activities. 11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (\$000)A. Air Pollution 0 B. Water Pollution 0 C. Occupational Safety and Health 0

1. COMPONENT MDA

FY 2021 MILITARY CONSTRUCTION PROJECT DATA

2. DATE

Feb 2020

3. INSTALLATION AND LOCATION

Fort Greely, Alaska

4. PROJECT TITLE

Communications Center

 5. PROGRAM ELEMENT
 6. CATEGORY CODE
 7. PROJECT NUMBER
 8. PROJECT COST (\$000)

 0603882C
 13120
 MDA 680
 48,000

9. COST ESTIMATES

9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES Communications Center (13120) Special Construction	SF LS	11,500	2,207	31,589 (25,380) (6,209)
SUPPORTING FACILITIES Electrical/Comms Services Civil/Mechanical Services Site Preparations Site Improvements	LS LS LS	- - - -	- - - -	11,061 (8,321) (920) (1,535) (285)
SUBTOTAL CONTINGENCY (5.0%) TOTAL CONTRACT COST SIOH (6.5%) Design During Construction (0.5%) TOTAL REQUEST TOTAL REQUEST ROUNDED				42,649 2,132 44,781 2,911 224 47,916 48,000
INSTALLED EQPT-OTHER APPROPRIATIONS				(54,166)

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct a Communications Center in support of the Ballistic Missile Defense System (BMDS) at Fort Greely, AK (FGA) to house mission communication equipment.

Primary Facility:

Communications Center with construction matching surrounding existing facilities (cast-in-place concrete walls). The building will use a single sloped or double pitched roof as part of a cold roof design. The facility will be a single story structure with attic that permits access to inspect High Altitude Electromagnetic Pulse (HEMP) shield from above. Interior framing will include seismic supports for installed equipment. Lightning protection and equipment grounding/bonding systems are included. Foundation includes features to meet site-specific ground motion, seismic and any blast protection requirements. Anti-Terrorism Force Protection features will be incorporated in accordance with applicable Unified Facilities Criteria (UFC). Facility to comply with UFC 1-200-01 DoD Building Code.

Facility will incorporate special construction for HEMP, Electromagnetic Interference (EMI), and Toxic Free Area protection.

1. COMPONENT MDA	FY	2021 MILITARY CONS	2. DATE Feb 2020	
3. INSTALLATION AND	LOCATION		4. PROJECT TITLE	·
Fort Greely,	ort Greely, Alaska Communications Center		r	
5. PROGRAM ELEMEN	NT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)
0603882	2C	13120	MDA 680	48,000

10. DESCRIPTION OF PROPOSED CONSTRUCTION: (continued)

Supporting Facilities:

Electrical and Communications services will include HEMP protected electrical distribution and communications (existing and new) systems. Utilidor extension will be provided to connect to the existing infrastructure.

Civil and Mechanical Services will include water, sewer, walkways, fire protection & alarm systems and sewer / septic system. Appropriate HEMP and EMI waveguides will be used for all mechanical penetrations through shield boundaries.

Site Preparations include mobilization, clearing, grubbing, excavation and grading.

Site Improvements include connection to existing roads, fencing and new pavements.

11. REQUIREMENT: 25,353 SF ADQT: 13,853 SF SUBSTD: 0 SF

<u>PROJECT:</u> Construct a Communications Center and supporting infrastructure to house mission communication equipment required for connectivity between BMDS assets.

REQUIREMENT: This project is required to support the Warfighter mission and enhance homeland defense from emerging threats. As adversaries pursue credible and advanced capabilities, the United States must improve and adapt its missile defense capabilities to outpace the threats.

CURRENT SITUATION: This capability does not currently exist at FGA to support BMDS mission requirements. The Warfighter executes its mission using existing facilities distributed geographically across the BMDS. Operational Ground Based Interceptors (GBIs) are hosted at FGA and Vandenberg Air Force Base, CA, with additional equipment distributed worldwide.

IMPACT IF NOT PROVIDED: The Warfighter lacks additional space for mission communication equipment from which to execute the BMDS mission.

ADDITIONAL INFORMATION:

The project was evaluated for compliance with Executive Orders 11988 Flood Plain Management and 11990 Protection of Wetlands and the Flood Plain Management Guidelines of U.S. Water Resources Council. The Project is not sited on the 100-year flood plain and is sited to preserve and enhance the natural and beneficial values of wetlands; and minimize destruction, loss or degradation of wetlands.

Anti-Terrorism Force Protection will be incorporated in accordance with applicable Unified Facilities Criteria (UFC).

Project to be executed in accordance with the NMD Deployment Final EIS dated July 2000.

Complies with UFC 1-200-02 High Performance and Sustainable Building Requirements to achieve high performance and sustainable buildings complying with the Energy Policy Act of 2005, and the Energy Independence and Security Act of 2007.

MDA	FY	2021 MILITARY CONST	RUCTION PROJECT DATA		Feb 2020
4. INSTALLATION AND	LOCATION		4. PROJECT TITLE		
Fort Greely,	Alaska	Communications Center			
5. PROGRAM ELEMEN	NT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PR	OJECT COST (\$000)
0603882	2C	13120	MDA 680		48,000

12. SUPPLEMENTAL DATA:

1 COMPONENT

A. Estimated Execution Data

(c) Construction Completion

(1) Acquisition Strategy: Design-Bid-Build

(2) Design Data

(a) Design or Request for Proposal (RFP) Started: Mar 2019 (b) Percent Complete As Of January 2020 65% Oct 2020 (c) Design or RFP Complete: (d) Total Design Cost (\$000): 4,800 (e) Energy Study and/or Life Cycle Analysis performed No (f) Standard or definitive design used? No (3) Construction Data: (a) Contract Award Feb 2021 (b) Construction Start Apr 2021

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

		FY	
Equipment Nomenclature	Procuring Appropriation	Appropriated or Requested	Cost \$(000)
Construction Free Zone (CFZ)	RDT&E	FY21	1,921
Equipment Rack Isolation Framing	RDT&E	FY21	240
Site Activation / IPO	RDT&E	FY22-23	2,248
GFC/GCN Equipment	RDT&E	FY22-23	47 , 856
Security Equipment/IESS	RDT&E	FY22	533
Mission Fiber Optic Cable	RDT&E	FY23	739
Furniture, Furnishings & Equipment(FFE)	RDT&E	FY23	629
		Total RDT&E:	54,166

Total: 54,166

2 DATE

Jun 2023

1. COMPONENT 2. DATE FY 2021 MILITARY CONSTRUCTION PROJECT DATA MDA Feb 2020 3. INSTALLATION AND LOCATION 4. PROJECT TITLE Various Worldwide Locations Unspecified Minor Construction **5. PROGRAM ELEMENT** 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) N/A N/A 4,922 N/A9. COST ESTIMATES **QUANTITY UNIT COST ITEM** COST (\$000) Unspecified Minor Construction LS 4,922 SUBTOTAL 4,922 CONTINGENCY PERCENT (0.0%) ESTMATED CONTRACT COST 4,922

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Provide a lump sum amount for unspecified construction projects, not otherwise authorized by law, including normal construction, alteration or conversion of permanent or temporary facilities, in accordance with 10 USC Section 2805 as amended by the FY 2018 National Defense Authorization Act.

4,922

4,922

(0)

11. REQUIREMENT: As required

TOTAL REQUEST (ROUNDED)

TOTAL REQUEST

SUPERVISION, INSPECTION & OVERHEAD (0.0%)

INSTALLED EQPT-OTHER APPROPRIATIONS

REQUIREMENT: New and expanded facilities supporting MDA missions with a cost up to \$6,000,000 adjusted for location (not to exceed \$10,000,000) within the U.S. and territories, and up to \$6,000,000 elsewhere. These funds provide MDA the capability to react in FY 2021 to any priority emergent 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.

All required NEPA and/or EO 12114 analyses will be completed prior to the start of construction for each unspecified construction project.