# Missile Defense Agency FY 2019 Military Construction, Defense-Wide (\$ in Thousands)

| State/Installation/Project   | Auth<br><u>Request</u> | Approp<br><u>Request</u> | New/<br>Current<br><u>Mission</u> | Page<br><u>No.</u> |
|--|------------------------|--------------------------|-----------------------------------|--------------------|
| Alaska Clear Air Force Station (AFS) Long Range Discrimination Radar System Complex, Phase 2 | 174,000                | 174,000                  | N                                 | 101                |
| Fort Greely Missile Field #1 Expansion   | 8,000                  | 8,000                    | C                                 | 106                |
| Total  | 182,000                | 182,000                  |                                   |                    |

| 1. COMPONENT                           |                       |          |          |         |                 |          |          |                           | 2. DATE         |         |
|--|-----------------------|----------|----------|---------|-----------------|----------|----------|---------------------------|-----------------|---------|
| MDA                                    | F'                    | Y 2019 M | ILITARY  | CONS    | <b>TRUCTIO</b>  | N PROJE  | CT DAT   | Ά                         |                 | 2018    |
| 3. INSTALLATION AND LOC                | ATION                 |          |          |         |                 |          |          |                           |                 |         |
| 3. INSTALLATION AND LOC                | ATION                 |          |          |         | 4. COMMAN       | D        |          |                           | •               | CONSTR. |
| Clear AFS, Alask                       | a                     |          |          |         | Missile         | Defens   | se Agen  | су                        | 2               | .53     |
| 6. PERSONNEL                           | F                     | PERMANEN | Г        |         | STUDENTS S      |          | SUPPORTE | )                         |                 |         |
| STRENGTH:                              | OFFICER               | ENLISTED | CIVILIAN | OFFICE  | ENLISTED        | CIVILIAN | OFFICER  | ENLISTED                  | CIVILIAN        | TOTAL   |
| N/A: Tenant of U.S.<br>Air Force       |                       |          |          |         |                 |          |          |                           |                 |         |
|  |                       |          |          |         |                 |          |          |                           |                 |         |
|  |                       |          | 7. IN    | VENTORY | DATA (\$000)    |          |          |                           |                 |         |
| A. TOTAL ACERAGE                       |                       |          |          |         |                 |          | N/A      | A                         |                 |         |
| B. INVENTORY TOTAL AS (                | )F                    |          |          |         |                 |          | N/A      |                           |                 |         |
|  |                       |          |          |         |                 | 55,000   |          |                           |                 |         |
| D. AUTHORIZATION REQUI                 |                       |          |          |         |                 |          | 0        | 22,000                    |                 |         |
| E. AUTHORIZATION REQUE                 |                       |          |          |         |                 |          |          | 74,000                    |                 |         |
| F. PLANNED IN NEXT THRE                |                       |          |          |         |                 |          | 0        | ,                         |                 |         |
| G. REMAINING DEFICIENC                 |                       | ,        |          |         |                 |          | 0        |                           |                 |         |
| H. GRAND TOTAL.                        |                       |          |          |         |                 |          |          | 29,000                    |                 |         |
|  |                       |          |          |         |                 |          |          | 20,000                    |                 |         |
| 8111 Lone                              | JECT TITLE<br>g Range | Discrim  | ination  | Radar   | SCOPE<br>28.0MW | (\$0     | /        | DESIGN<br>START<br>Jan 15 | COMPLETE        |         |
| 9. FUTURE PROJECTS:  CATEGORY  CODE  P | ROJECT TIT            | 'LE      |          |         |                 |          | SCOPE    | •                         | COST<br>(\$000) |         |
| 10. MISSION OR MAJOR FU                |                       |          |          |         |                 |          |          |                           |                 |         |

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 Long Range Discrimination Radar project is required for deployment of a new midcourse tracking radar that will provide persistent coverage and improve discrimination capabilities against threats to the homeland from the Pacific theater. Phase 2 provides dedicated shielded power generation to improve survivability and reliability, availability, and maintainability (RAM) requirements supporting a midcourse BMDS discrimination capability to defend the United States from ballistic missile attacks and meet the 2020 MDA Enhanced Homeland Defense Capability.

#### 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 100

1. COMPONENT

MDA

FY 2019 MILITARY CONSTRUCTION PROJECT DATA

2. DATE

Feb 2018

3. INSTALLATION AND LOCATION

4. PROJECT TITLE

Clear AFS, Alaska Long Range Discrimination Radar System Complex, Phase 2

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

 0604873C
 8111
 MDA 659
 174,000

| 9. COST ESTIMATES                    |     |          |           |              |  |  |  |
|--------------------------------------|-----|----------|-----------|--------------|--|--|--|
| ITEM                                 | U/M | QUANTITY | UNIT COST | COST \$(000) |  |  |  |
| PRIMARY FACILITIES                   |     |          |           | 147,554      |  |  |  |
| Mission Power Plant (811147)         | KW  | 28,000   | 4,428.71  | (124,004)    |  |  |  |
| Special Construction                 | LS  |          |           | (12,400)     |  |  |  |
| Fuel Storage (411134)                | GA  | 200,000  | 32.27     | (6,453)      |  |  |  |
| Maintenance Facility (219944)        | SF  | 10,000   | 338.40    | (3,384)      |  |  |  |
| Antiterrorism/Force Protection       | LS  |          |           | (969)        |  |  |  |
| Security Infrastructure/ESS (872841) | LS  |          |           | (344)        |  |  |  |
| SUPPORTING FACILITIES                |     |          |           | 8,046        |  |  |  |
| Electric Service                     | LS  |          |           | (1,739)      |  |  |  |
| Water, Sewer                         | LS  |          |           | (1,109)      |  |  |  |
| Site Improvements                    | LS  |          |           | (4,092)      |  |  |  |
| Information/Communication Systems    | LS  |          |           | (1,006)      |  |  |  |
| Temporary Infrastructure Mob/Demob   | LS  |          |           | (100)        |  |  |  |
| SUBTOTAL                             |     |          |           | 155,600      |  |  |  |
| CONTINGENCY (5.00%)                  |     |          |           | 7,780        |  |  |  |
| TOTAL CONTRACT COST                  |     |          |           | 163,380      |  |  |  |
| SIOH (6.50%)                         |     |          |           | 10,620       |  |  |  |
| TOTAL REQUEST                        |     |          |           | 174,000      |  |  |  |
| TOTAL ROUNDED REQUEST                |     |          |           | 174,000      |  |  |  |
| INSTALLED EQUIPMENT-OTHER APPROP     |     |          |           | (20,734)     |  |  |  |

10. DESCRIPTION OF PROPOSED CONSTRUCTION: This project constructs a Long Range Discrimination Radar (LRDR) Mission power plant at Clear AFS, Alaska supporting the LRDR System Complex. These facilities will be within the LRDR System Security Level A (SSL-A) secure boundary.

Special Construction includes High Altitude Electromagnetic Pulse (HEMP)/Electro-Magnetic Interference (EMI) shielding in accordance with MIL-STD-188-125, integration and testing of power and all LRDR Complex shielded assets. Mission critical facilities will include features to meet site specific ground motion and seismic requirements.

Fuel storage includes distribution piping, liquid fuel offloading stand and storage tanks.

The maintenance facility will provide general work bench space for maintenance of radar system components and other mission support activities. It will also provide shipping and receiving and warehouse space for general facility material.

Anti-terrorism / force protection infrastructure will consist of fencing and gates.

Security Infrastructure / electronic security system (ESS) will include fire protection and alarm systems.

Supporting facilities include electrical medium voltage distribution from the substation to the mission power plant, lightning protection and equipment grounding, water, and sewer.

Site improvements include clearing, grubbing, grading, demolition, paving, walks and storm drainage.

Information and Communications systems will include communication transmission lines, cybersecurity, and information management systems.

Temporary infrastructure will support site improvements and preparation for construction. Improvements include temporary roads, construction free zone site fence, mobilization and demobilization.

DD FORM 1391 101

1. COMPONENT

MDA

### FY 2019 MILITARY CONSTRUCTION PROJECT DATA

2. DATE

Feb 2018

3. INSTALLATION AND LOCATION

Clear AFS, Alaska

4. PROJECT TITLE

5. PROJECT NUMBER

Long Range Discrimination Radar System Complex, Phase 2

MDA 659

NONE

**11. REQUIRED:** 28.0MW

ADEQUATE: NONE

SUBSTANDARD:

<u>PROJECT</u>: Construct a new Long Range Missile Defense Radar System Complex mission power plant and on-site maintenance facility supporting the LRDR. (New Mission)

REQUIREMENT: This project is required to construct dedicated shielded (N+1) power generation to improve survivability and reliability, availability, and maintainability (RAM) requirements supporting a midcourse Ballistic Missile Defense System (BMDS) discrimination capability to defend the United States from ballistic missile attacks and meet the requirements of the Ground-based Midcourse Defense program's Homeland Defense Capability and the LRDR program's requirement to complete initial fielding in 2020. When complete, this radar will function as part of the BMDS and be functionally capable through the MDA Command, Control, Battle Management and Communications (C2BMC) system. In addition, Air Force Space Command envisions using LRDR's inherent space situational awareness capabilities to augment the Space Surveillance Network. Due to the limited construction season in Alaska and the urgency of the requirement, the Department requires both full authorization and appropriation of these funds in FY 19.

<u>CURRENT SITUATION:</u> The LRDR will operate from the existing commercial power grid at initial operational capability. No dedicated mission power is available to meet the operational survivability requirement, mission readiness and capability of the LRDR Complex in performing missile defense sensor operations.

IMPACT IF NOT PROVIDED: Dedicated backup mission power will not be available for the enhanced midcourse sensor discrimination capability and the BMDS may be degraded against expected threats in 2020 and beyond.

ADDITIONAL INFORMATION: This project has been 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 in the 100-year flood plain and will be sited to preserve and enhance the natural and beneficial values of wetlands; and minimize the destruction, loss or degradation of wetlands.

DD FORM 1391C 102

| ı |
|---|
|   |

MDA

## FY 2019 MILITARY CONSTRUCTION PROJECT DATA

2. DATE

Feb 2018

#### 3. INSTALLATION AND LOCATION

Clear AFS, Alaska

4. PROJECT TITLE

Long Range Discrimination Radar System Complex, Phase 2

**5. PROJECT NUMBER** 

MDA 659

#### 12. SUPPLEMENTAL DATA:

A. Estimated Execution Data

(1) Acquisition Strategy:

Design-Bid-Build

(2) Design Data

| (a)   | Design or Request for Proposal (RFP) Started:     | Jan 2015   |
|-------|---|------------|
| (b)   | Percent Complete As Of January 2018               | 65%        |
| (c)   | Design or RFP Complete:                           | Oct 2018   |
| (d)   | Total Design Cost:                                | 15,100,000 |
| (e)   | Energy Study and/or Life Cycle Analysis performed | No         |
| (f)   | Standard or definitive design used?               | No         |
| Const | truction Data:                                    |            |

(3) Co

| CIID | staction baca           |     |      |
|------|-------------------------|-----|------|
| (a)  | Contract Award          | Mar | 2019 |
| (b)  | Construction Start      | Jun | 2019 |
| (c)  | Construction Completion | Dec | 2021 |

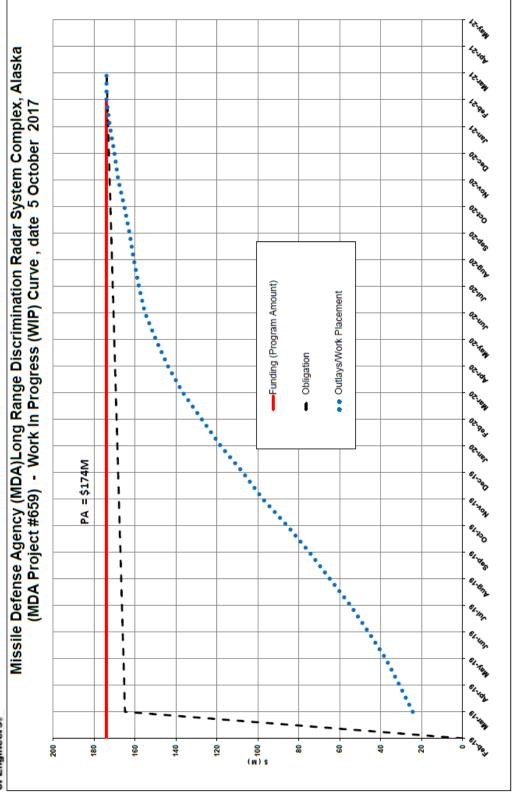
B. Equipment associated with this project which will be provided from other appropriations:

|                    |               | FY           |         |  |
|--------------------|---------------|--------------|---------|--|
| Equipment          |               | Appropriated | Cost    |  |
| Nomenclature       | Appropriation | or Requested | \$(000) |  |
| Site Activation    | RDT&E         | FY17-FY21    | 20,669  |  |
| Security Equipment | RDT&E         | FY17-FY21    | 65      |  |
|                    |               | TOTAL:       | 20,734  |  |

Research, Development, Test & Evaluation (RDT&E) funds are programmed for site activation to provide operations services & support throughout construction, installation and checkout. These services include lodging, dining, and security. Installed equipment includes special flooring, electronic controls to monitor electrical systems and the base infrastructure.

**DD FORM 1391C** 103





|  |   |  |   |   |   |   |  |  |   | 2. DATE  |                         |
|--|---|--|---|---|---|---|--|--|---|--|-------------------------|
| MDA  |   | F`   | FY 2019 MILITARY CONSTRUCTION PROJECT DATA  |   |   |   |  | Feb  | 2018  |  |                         |
| B. INSTALLATION A  | AND LOC   | ATION  |   |   |   | 4. COMMAN   | D  |  |   |  | CONSTR                  |
| Fort Greely  | , Ala   | ska  |   |   |   | Missile   | Defens                                       | se Agen  | су  |  | .51                     |
| . PERSONNEL  |   | F  | PERMANEN'   | Γ   |   | STUDENTS  |  |  | SUPPORTE  | D  |                         |
| STRENGTH   | :   | OFFICER  | ENLISTED  | CIVILIAN  | OFFICE  | RENLISTED   | CIVILIAN                                     | OFFICER  | ENLISTED  | CIVILIAN   | TOTAL                   |
| /A: Tenant of U.   | S.  |  |   |   |   |   |  |  |   |  |                         |
| Army   |   |  |   |   |   |   |  |  |   |  |                         |
|  |   |  |   |   |   |   |  |  |   |  |                         |
|  |   |  |   | 7. IN   | VENTORY   | DATA (\$000)  |  |  |   |  |                         |
|  |   |  |   |   |   |   |  |  |   |  |                         |
| . TOTAL ACERAG   |   |  |   |   |   |   |  | N/A  |   |  |                         |
| 3. INVENTORY TO  |   |  |   |   |   |   |  | N/A  |   |  |                         |
| C. AUTHORIZATIO  | N NOT YE  | ET IN INVEN  | NTORY   |   |   |   |  |  | ,560  |  |                         |
| D. AUTHORIZATIO  | N REQUE   | ESTED IN TH  | HE FY2018   |   |   |   |  | 20   | 00,000  |  |                         |
| . AUTHORIZATIO   | N REQUE   | STED IN TH   | HE FY2019   |   |   |   |  | 8  | ,000  |  |                         |
| . PLANNED IN NE  | EXT THRE  | E PROGRA   | M YEARS   |   |   |   |  | 0  |   |  |                         |
| . REMAINING DE   | FICIENCY  | <b>′</b>   |   |   |   |   |  | 0  |   |  |                         |
| I. GRAND TOTAL.  |   |  |   |   |   |   |  | 23   | 17,560  |  |                         |
| 8. PROJECTS REG<br>CATEGORY<br>CODE<br>8222  | PROJ  | IN THE FYZ<br>JECT TITLE<br>sile Fie                                     |   |   | n   | SCOPE<br>2,430 LI   | (\$0   | ,  | DESIGN<br>START<br>Apr 18                         | COMPLETE   | :                       |
|  |   |  |   |   |   |   |  |  |   |  |                         |
| O. FUTURE PROJE<br>CATEGORY<br>CODE  |   | ROJECT TIT   | 'LE   |   |   |   |  | SCOPE  | :   | COST<br>(\$000)  |                         |
|  | MAJOR FU<br>egrate<br>deploy<br>all ph<br>crease<br>of 44 G           | UNCTIONS: ed, laye yed force asses of ed groun BBIs to capabili          | The mis<br>red Bal<br>es, all<br>flight<br>d-based<br>be cont<br>ties of            | listic Mies, and The Minterce inuous of the BMM             | Missile<br>d frier<br>Missile<br>eptor (<br>during<br>OS will | e Defense<br>nds again<br>e Field #<br>(GBI) cap<br>GBI main<br>l ensure              | System st all capan cabiliti tenance spare s | Agency ( (BMDS) ranges sion pr es, to activi ilos an | (MDA) is to defe of enemy oject wa allow op ties. | (\$000)  s to developed the y ballis ill proveration planned | United<br>tic<br>ide th |
| CATEGORY CODE  0. MISSION OR Maried an interpretates, our missiles in marked by the second of the control of th | MAJOR FU<br>egrate<br>deploy<br>all ph<br>acrease<br>of 44 G<br>and c | UNCTIONS: ed, laye yed force asses of ed groun GBIs to capabili eats and | The mis<br>red Bal<br>es, all<br>flight<br>d-based<br>be cont<br>ties of<br>enhance | listic Nies, and The Niese interce inuous of the BMN our Na | Missiled frier Missiled Ptor (during DS will ation's          | e Defense<br>nds again<br>e Field #<br>(GBI) cap<br>GBI main<br>l ensure              | System st all capan cabiliti tenance spare s | Agency ( (BMDS) ranges sion pr es, to activi ilos an | (MDA) is to defe of enemy oject wa allow op ties. | (\$000)  s to developed the y ballis ill proveration planned | United<br>tic<br>ide th |
| CATEGORY CODE  0. MISSION OR Marield an interpretates, our missiles in managements apability of enhancements meet emergin  | MAJOR FU<br>egrate<br>deploy<br>all ph<br>acrease<br>of 44 G<br>and c | UNCTIONS: ed, laye yed force asses of ed groun BBIs to capabili eats and | The mis<br>red Bal<br>es, all<br>flight<br>d-based<br>be cont<br>ties of<br>enhance | listic Nies, and The Niese interce inuous of the BMN our Na | Missiled frier Missiled Ptor (during DS will ation's          | e Defense<br>nds again<br>e Field #<br>(GBI) cap<br>GBI main<br>L ensure<br>s homelan | System st all capan cabiliti tenance spare s | Agency ( (BMDS) ranges sion pr es, to activi ilos an | (MDA) is to defe of enemy oject wa allow op ties. | (\$000)  s to developed the y ballis ill proveration planned | United<br>tic<br>ide th |

DD FORM 1390 105

N/A

C. Occupational safety and health (OSH):

| 1. COMPONENT        | _                   |                        |                   |                            | 2. DATE      |  |  |
|---------------------|---------------------|------------------------|-------------------|----------------------------|--------------|--|--|
| MDA                 | F                   | Y 2019 MILITARY CONSTR | Feb 2018          |                            |              |  |  |
| 3. INSTALLATION AND | LOCATION            |                        | 4. PROJECT TITLE  |                            |              |  |  |
| Fort Greely,        | Fort Greely, Alaska |                        |                   | Missile Field #1 Expansion |              |  |  |
| 5. PROGRAM ELEMEN   | NT                  | 6. CATEGORY CODE       | 7. PROJECT NUMBER | 8. PROJECT                 | COST (\$000) |  |  |
| 0603882             | С                   | 82221                  | MDA 679           |                            | 8,000        |  |  |

| 9. COST ESTIMATES   |                            |          |                  |   |  |  |  |
|---|----------------------------|----------|------------------|---|--|--|--|
| ITEM  | U/M                        | QUANTITY | UNIT COST        | COST (\$000)  |  |  |  |
| PRIMARY FACILITIES Chilled Water Line Extensions (82221) Silo Infrastructure Modifications (14951) Site Communications, Security Features | LF<br>EA<br>LS             | 2,430    | 1,164<br>122,000 | 5,246<br>(2,828)<br>(244)<br>(2,174)                      |  |  |  |
| SUPPORTING FACILITIES Electrical Services Chilled Water System Modifications Grounding/Temporary Power Paving Site Demo Other (Mob/Demob) | LS<br>LS<br>LS<br>LS<br>LS |          |                  | 1,930<br>(1,189)<br>(479)<br>(85)<br>(109)<br>(4)<br>(64) |  |  |  |
| SUBTOTAL CONTINGENCY PERCENT (5.0%) TOTAL CONTRACT COST SIOH (6.5 %) TOTAL REQUEST TOTAL REQUEST ROUNDED                                  |                            |          |                  | 7,176<br>359<br>7,535<br>490<br>8,025<br>8,000            |  |  |  |
| INSTALLED EQPT-OTHER APPROPRIATIONS   |                            |          |                  | (139,000)   |  |  |  |

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct Missile Field #1 (MF#1) expansion to include completing an additional 2 ground-based interceptor (GBI) launch facilities, and supporting utilities infrastructure in support of the Ballistic Missile Defense System (BMDS) at Fort Greely, AK.

Existing silo infrastructure in MF#1 includes 14 unfinished and isolated silo shafts with liners. This project will construct chilled water line extensions from the existing utilidor (trunk line) piping to two of the unfinished silos.

Additional silo infrastructure modifications will excavate, construct slabs, and backfill the openings for two new Silo Interface Vaults (SIVs) for launch equipment required to make the silos operational.

This project will install new communication and security conduits for fiber optic cabling and security monitoring from existing manholes to the SIV/Silos.

Supporting facilities will include installing electrical utilities from the duct banks to the SIVs.

This project will include modifications to the chilled water system pumping capacity and to the demineralized/chilled water piping bundles consisting of carrier pipes within containment pipes in the Mechanical Electrical Building (MEB) to accommodate the two additional SIVs. This project will extend High Altitude Electromagnetic Pulse (HEMP) protected power to the SIV and HEMP modifications to the MEB to facilitate chiller system modifications.

Site work will include repairing SIV grounding systems, providing temporary power to the SIV, new paving around the SIVs, and site demolition.

 ${\tt Mobilization/Demobilization\ will\ consist\ of\ establishing\ a\ segregated\ construction\ laydown\ area\ and\ temporary\ environmental\ controls.}$ 

DD FORM 1391 106

| 1. COMIT CIVELITY            | FY | 2. DAIL                                    |   |  |  |
|------------------------------|----|--|---|--|--|
| MDA                          |    | FY 2019 MILITARY CONSTRUCTION PROJECT DATA |   |  |  |
| 3. INSTALLATION AND LOCATION |    |  | 4. PROJECT TITLE                          |  |  |
| Fort Greely, Alaska          |    |  | Missile Field #1 Expansion                |  |  |
| 5. PROGRAM ELEMEN            | NT | 6. CATEGORY CODE                           | 7. PROJECT NUMBER 8. PROJECT COST (\$000) |  |  |

MDA 679

2 DATE

Design-Bid-Build

8,000

11. REQUIREMENT: 2,430 LF ADQT: 0 LF SUBSTD: None

82221

PROJECT: Expand MF #1 to accommodate two additional GBIs, including site work, utilities, power and supporting infrastructure. (Current Mission)

REQUIREMENT: This project is required to provide the BMDS with increased GBI capabilities, to allow operational capability of 44 GBIs to be continuous during GBI maintenance activities. As adversaries continue to pursue credible and advanced capabilities, the U.S. must evolve its missile defense capabilities to outpace increasingly complex threats. Operational capability of the 6 existing GBIs at MF #1 will be maintained during upgrade activities. Due to the limited construction season in Alaska and the urgency of the requirement, the Department requests this project in FY 2019.

<u>CURRENT SITUATION</u>: The United States has 44 operational GBIs distributed between three missile fields at Fort Greely, Alaska and one missile field at Vandenberg AFB, CA. The existing situation is that no spare silos and GBIs are available to maintain the required 44 operational while GBI and Silo maintenance activities are performed. The completion of the FY 2018 MF #4 project will increase GBI availability to 64.

IMPACT IF NOT PROVIDED: Planned enhancements and capabilities of the BMDS to meet emerging threats will not be available for our Nation's homeland defense.

ADDITIONAL INFORMATION: This project has been 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 in the 100-year flood plain and will be sited to preserve and enhance the natural and beneficial values of wetlands; and minimize the destruction, loss or degradation of wetlands.

This project is being coordinated with the installation physical security plan and required physical security and/or combating terrorism (CBT/T) measures are being included. All required NEPA analyses will be completed prior to the start of construction.

#### 12. SUPPLEMENTAL DATA:

1 COMPONENT

0603882C

| Α. | Estimated | Execution | Data |
|----|-----------|-----------|------|
|    |           |           |      |

(1) Acquisition Strategy:

| (2) Design Data                                       |          |
|---|----------|
| (a) Design or request for Proposal (RFP) Started:     | Apr 2018 |
| (b) Percent Complete As Of January 2018               | 0%       |
| (c) Design or RFP Complete:                           | Nov 2018 |
| (d) Total Design Cost:                                | 800,000  |
| (e) Energy Study and/or Life Cycle Analysis performed | No       |
| (f) Standard or definitive design used?               | Yes      |
| (3) Construction Data:                                |          |
| (a) Contract Award                                    | Mar 2019 |
| (b) Construction Start                                | Jun 2019 |
| (c) Construction Completion                           | Aug 2020 |

DD FORM 1391c 107

| 1. COMPONENT        | E,       | Y 2019 MILITARY CONST | RUCTION PROJECT DATA       | 2. DATE                 |  |
|---------------------|----------|-----------------------|----------------------------|-------------------------|--|
| MDA                 | •        | 1 2013 MILITARY CONCT | Feb 2018                   |                         |  |
| 3. INSTALLATION AND | LOCATION |                       | 4. PROJECT TITLE           |                         |  |
| Fort Greely, Alaska |          |                       | Missile Field #1 Expansion |                         |  |
| 5. PROGRAM ELEMEI   | NT       | 6. CATEGORY CODE      | 7. PROJECT NUMBER          | 8. PROJECT COST (\$000) |  |
| 0603882             | 2C       | 82221                 | MDA 679                    | 8,000                   |  |

## 12. SUPPLEMENTAL DATA: (cont.)

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

| Equipment<br>Nomenclature   | Procuring<br>Appropriation       | FY<br>Appropriated<br>or Requested           | Cost<br>\$(000)                             |
|---|----------------------------------|--|---|
| GBI Launch Support Equipment GBI Launch Support Equipment GBI Launch Support Equipment GBI Launch Support Equipment | RDT&E<br>RDT&E<br>RDT&E<br>RDT&E | FY18<br>FY19<br>FY20<br>FY21<br>Total RDT&E: | 70,000<br>1,000<br>5,000<br>5,000<br>81,000 |
| Procure, Install, and Test SIV/Silos  | Procurement                      | FY19 Total Procurement:                      | 58,000<br>58,000                            |

Total: 139,000

DD FORM 1391c 108