<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Alaska</td>
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<tr>
<td>Clear Air Force Station (AFS)</td>
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<td>Long Range Discrimination Radar System Complex, Phase 1</td>
<td>155,000</td>
<td>155,000</td>
<td>N</td>
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<td>Fort Greely</td>
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<tr>
<td>Missile Defense Complex Switchgear Facility</td>
<td>9,560</td>
<td>9,560</td>
<td>C</td>
<td>96</td>
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<td>Wake Island</td>
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<td>Wake Island Air Base</td>
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<td>Test Support Facility</td>
<td>11,670</td>
<td>11,670</td>
<td>C</td>
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<td>Total</td>
<td>176,230</td>
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</table>
1. COMPONENT
MDA

2. DATE
Feb 2016

3. INSTALLATION AND LOCATION
Clear AFS, Alaska

4. COMMAND
Missile Defense Agency

5. AREA CONSTR. COST INDEX
2.44

6. PERSONNEL

<table>
<thead>
<tr>
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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 FY2017 | 155,000 |
| E. AUTHORIZATION REQUESTED IN THE FY2018 | 0 |
| F. PLANNED IN NEXT THREE PROGRAM YEARS | 150,000 |
| G. REMAINING DEFICIENCY | 0 |
| H. GRAND TOTAL. | 305,000 |

8. PROJECTS REQUESTED IN THE FY2017 PROGRAM:

<table>
<thead>
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<th>CATEGORY CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST ($)</th>
<th>DESIGN STATUS</th>
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<tr>
<td>1413</td>
<td>Long Range Discrimination Radar System Complex, Phase 1</td>
<td>1 EA</td>
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<td>Jan 15 Sep 16</td>
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9. FUTURE PROJECTS:

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<thead>
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<th>CATEGORY CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST ($)</th>
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<tr>
<td>8111</td>
<td>Long Range Discrimination Radar System Complex, Phase 2</td>
<td>1 EA</td>
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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 lethal object discrimination capabilities against threats to the homeland from the Pacific theater.

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: MDA

2. DATE: Feb 2016

3. INSTALLATION AND LOCATION: Clear AFS, Alaska

4. PROJECT TITLE: Long Range Discrimination Radar System Complex, Phase 1

5. CATEGORY CODE: 1413

6. PROGRAM ELEMENT: 0604873C

7. PROJECT NUMBER: MDA 657

8. PROJECT COST ($000): 155,000

9. COST ESTIMATES:

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<th>QUANTITY</th>
<th>UNIT COST</th>
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<td>PRIMARY FACILITIES</td>
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<tr>
<td>Mission Control Facility (141391)</td>
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<td>(60,000)</td>
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<td>Radar Foundation</td>
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<td>(1,100)</td>
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<td>CONTINGENCY (5.00%)</td>
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<td>6,931</td>
<td>145,539</td>
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<td>TOTAL CONTRACT COST</td>
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<td>145,539</td>
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<td>SIOH (6.50%)</td>
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<td>9,461</td>
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<td>TOTAL REQUEST</td>
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<td>TOTAL ROUNDED REQUEST</td>
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<td>155,000</td>
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<tr>
<td>INSTALLED EQUIPMENT—OTHER APPROP</td>
<td></td>
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<td>(893,728)</td>
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</tbody>
</table>

10. DESCRIPTION OF PROPOSED CONSTRUCTION: This project constructs a Long Range Discrimination Radar (LRDR) System Complex at Clear AFS, Alaska, supporting missile defense command and control components. The complex will consist of high-altitude electromagnetic pulse (HEMP) constructed LRDR infrastructure to include a mission control facility and foundation for the radar equipment. The complex will be within a System Security Level A (SSL-A) secure boundary with an entry control facility. Additional construction includes lightning protection, equipment grounding systems, nearfield antennas, electronic security system infrastructure, site boundary and restricted area security fencing, barriers, and gates.

Special Construction includes HEMP/Electro-Magnetic Interference (EMI) shielding and testing in mission support areas. Mission facilities will include features to meet site specific ground motion and seismic requirements. The constructed Mission Control Facility will be designed to obtain LEED Silver Certification.

Supporting facilities include overall site development, electrical services, utility building and commercial power electric substation, water, sewer, cooling water wells, paving, walks, storm drainage, fire protection and alarm systems, site improvements and demolition, telecommunication distribution and information management systems. The project also includes wastewater, sewage collection and disposal designed as a septic tank / leach field system.

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

Installed building equipment includes special flooring, redundant mechanical and electrical systems, uninterruptable power system and electronic controls to monitor building systems and the base infrastructure. A/C is estimated at 140 tons.
1. COMPONENT
   MDA

2. DATE
   Feb 2016

3. INSTALLATION AND LOCATION
   Clear AFS, Alaska

4. PROJECT TITLE
   Long Range Discrimination Radar System Complex, Phase 1

5. PROJECT NUMBER
   MDA 657

11. REQUIRED:
   1 EA Complex

   ADEQUATE: NONE
   SUBSTANDARD: NONE

PROJECT:
   Construct a new Long Range Discrimination Radar System Complex at Clear AFS, Alaska. (New Mission)

REQUIREMENT: This project is required for deployment of a new midcourse sensor that will provide midcourse Ballistic Missile Defense System (BMDS) discrimination capability to defend the United States from ballistic missile attacks and meet the 2020 MDA Enhanced Homeland Defense Capability. 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. Construction is planned to allow radar prime contractor integration in 2019. In addition, Air Force Space Command envisions using LRDR’s inherent space situational awareness capabilities to augment the Space Surveillance Network.

CURRENT SITUATION: There are no existing facilities that can be modified to house a new midcourse sensor. The new LRDR complex will expand radar coverage and increase the level of sophistication in radar discrimination beyond what is currently available to support the BMDS.

IMPACT IF NOT PROVIDED: If this project is not provided, enhanced midcourse sensor discrimination capability will not be deployed and the BMDS will be less capable against expected threats in 2020 and beyond.

ADDITIONAL INFORMATION: As applicable, this project shall comply with UFC 1-200-01, “General Building Requirements”, providing model building codes and government-unique criteria for typical design disciplines and building systems, as well as for accessibility, antiterrorism, security, sustainability, and safety. All required NEPA and/or EO 12114 analyses will be completed prior to the start of construction. The project is being coordinated with the Installation Master Plan.

Research, Development, Test & Evaluation (RDT&E) funds are programmed to provide security control and a temporary man camp to support lodging and dining in support of site activation. In addition, an RDT&E effort will demilitarize and remove the remaining BMETS AN/FPS-50 detection radar fixed antenna, transmitter equipment, and two tracking radars.

The Radar structure, enclosure, and associated equipment will be provided with other appropriations by the radar prime contractor.

A follow-on Phase 2 project is planned to construct a mission power plant, diesel fuel storage and load/unload point, an on-site maintenance facility, and associated site support. Portions of the Mission Facilities must be HEMP protected in accordance with MIL-STD-188-125 “High Altitude Electromagnetic Pulse (HEMP) Protection”.

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.

Cost estimates were derived from the LRDR System Complex 35% design.
1. COMPONENT
MDA

2. DATE
Feb 2016

3. INSTALLATION AND LOCATION
Clear AFS, Alaska

4. PROJECT TITLE
Long Range Discrimination Radar System Complex, Phase 1

5. PROJECT NUMBER
MDA 657

12. SUPPLEMENTAL DATA:

A. Estimated Design Data
(1) Status:
   (a) Date Design Started: Jan 2015
   (b) Percent Complete As Of January 2016: 50%
   (c) Date 35% Design Complete: Oct 2015
   (d) Date Design Complete: Sep 2016
   (e) Parametric Cost Estimating Used To Develop Cost: No
   (f) Type of Design Contract: Design-Bid-Build

(2) Basis:
   (a) Standard or Repetitive Design: No
   (b) Where Design Was Most Recently Used: N/A

(3) Total Design Cost (c) = (a)+(b) or (d)+(e) ($000)
   (a) Production of Plans and Specifications: 9,300
   (b) All Other Design Costs: 6,200
   (c) Total Design Costs: 15,500
   (d) Contract: 10,850
   (e) In-House: 4,650

(4) Contract Award: Mar 2017
(5) Construction Start: Jun 2017
(6) Construction Completion: Aug 2020

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

<table>
<thead>
<tr>
<th>Equipment Nomenclature</th>
<th>Appropriation</th>
<th>FY Appropriated or Requested</th>
<th>Cost $(000)</th>
</tr>
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<tbody>
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<td>RDT&amp;E</td>
<td>FY16-FY21</td>
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<td>Mission Comms Equipment</td>
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<tr>
<td>Installed Building Equipment</td>
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<tr>
<td>Commercial Power Extension</td>
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</tr>
<tr>
<td>Demil/Remove BM EWS Antenna/Equip/Radars</td>
<td>RDT&amp;E</td>
<td>FY16-FY17</td>
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<td>Site Activation</td>
<td>RDT&amp;E</td>
<td>FY16-FY18</td>
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<td>TOTAL:</td>
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<td>893,728</td>
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</table>
1. COMPONENT
MDA

2. DATE
Feb 2016

3. INSTALLATION AND LOCATION
Fort Greely, Alaska

4. COMMAND
Missile Defense Agency

5. AREA CONSTR.
COST INDEX
2.45

6. PERSONNEL
STRENGTH:
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 FY2017
.............. 9,560
E. AUTHORIZATION REQUESTED IN THE FY2018
.............. 0
F. PLANNED IN NEXT THREE PROGRAM YEARS
.............. 0
G. REMAINING DEFICIENCY
.............. 0
H. GRAND TOTAL.
.............. 9,560

8. PROJECTS REQUESTED IN THE FY2017 PROGRAM:
CATEGORY
CODE PROJECT TITLE SCOPE COST DESIGN STATUS
89113 Missile Defense Complex Switchgear Facility
1,400 SF 9,560 Jul 15 Sep 16

9. FUTURE PROJECTS:
CATEGORY CODE PROJECT TITLE SCOPE COST ($000)

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 Switchgear facility project is required to provide the Ground-Based Midcourse Defense System with increased capabilities for homeland defense. This project constructs a shielded Switchgear Facility providing redundant switchgear units and site electrical infrastructure upgrades to support current survivability and reliability, availability, and maintainability (RAM) requirements.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:
A. Air Pollution: N/A
B. Water pollution: N/A
C. Occupational safety and health (OSH): N/A
PRIMARY FACILITIES
Switchgear Facility (89113)  m2 (SF)  130 (1,400)  31,831 (2,956)  (4,138)
Electrical Switching Station (81350)  KV  12.47  151,083 (1,884)
Special Construction  LS  (914)
Switchgear Pad (85225)  m3 (CY)  77 (100)  263 (480)  (48)
Transformer (81360)  KV  12.47  244 (366)
Security Fence/Force Protection/ESS  LS  (240)

SUPPORTING FACILITIES
Electrical  LS  (675)
Water, Sewer, Gas  LS  (5)
Paving, Walks  LS  (50)
Mob / Demob  LS  (200)
Site Improvements / Demo  LS  (20)
Information/Communication Systems  LS  (9)

SUBTOTAL  8,549
CONTINGENCY (5.00%)  427
TOTAL CONTRACT COST  8,976
SIOH (6.50%)  583
TOTAL REQUEST  9,560
TOTAL REQUEST ROUNDED  9,560

INSTALLED EQUIPMENT—OTHER APPROP  (100)

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
Construct a shielded Switchgear Facility to include a switching station with switchgear and all necessary safety and security equipment, two shielded enclosures, concrete pad, and associated electrical infrastructure upgrades at Fort Greely, Alaska. The Switchgear Facility will provide redundant automatic switchgear units and other electrical equipment supporting the two existing In-Flight Interceptor Communications System (IFICS) Data Terminals (IDTs).

The shielded Switchgear Facility construction will contain the primary power equipment to support the IDT units: redundant switchgear units, electrical breakers, and two - 750 KVA transformers. The Switchgear Facilities’ protection includes 1/4-inch thick steel plates and IDT test connection points. The shielding requires testing and certification.

The switchgear concrete pad construction will include features to meet site specific ground motion and seismic requirements. Security infrastructure will include fencing, bollards, and an electronic security system.

Supporting facilities include: site electrical power system and grounding system upgrades; coordination improvements, electrical conduits and manhole upgrades, paving, fire protection and alarm systems, and information management systems. Site preparation includes clearing, grubbing, site grading, and demolition of a fence and existing transformers.
**1. COMPONENT**
MDA

**2. DATE**
Feb 2016

**3. INSTALLATION AND LOCATION**
Fort Greely, Alaska

**4. PROJECT TITLE**
Missile Defense Complex Switchgear Facility

**5. PROJECT NUMBER**
MDA 653

**11. REQUIRED:** 1,400 SF  
**ADEQUATE:** NONE  
**SUBSTANDARD:** NONE

**PROJECT:** Construct a shielded Switchgear Facility, associated electrical infrastructure upgrades, and supporting facilities. (Current Mission)

**REQUIREMENT:** This project is required to provide the Ground-Based Midcourse Defense System with increased capabilities for homeland defense. This project constructs a shielded Switchgear Facility providing redundant switchgear units and site electrical infrastructure upgrades to support current survivability and reliability, availability, and maintainability (RAM) requirements. The redundant switchgear units will support the two existing IDT units on the Missile Defense Complex (MDC) at Fort Greely, Alaska. The shielded Switchgear Facility and site electrical infrastructure upgrades will contribute to the end-to-end protection of the mission assets on the MDC.

**CURRENT SITUATION:** The lack of this new shielded switchgear for the IDT units limits improvements to the mission readiness and capability of the Ground-Based Midcourse System to perform missile defense operations.

**IMPACT IF NOT PROVIDED:** Planned enhancements for the shielded protection of the Ballistic Missile Defense System will not be available for our Nation’s homeland defense.

**ADDITIONAL INFORMATION:** 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. The project has been coordinated with the Installation Master Plan, and will be located on the Missile Defense Complex.

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 has been sited to manage the risk of flood loss; minimize the impact of floods on human safety, health and welfare; preserve and enhance the natural and beneficial values of wetlands; and minimize the destruction, loss or degradation of wetlands.

The Switchgear Facility is an uninhabited space; and therefore exempt from Americans with Disabilities Act and Leadership in Energy and Environmental Design requirements.
1. COMPONENT
MDA

2. DATE
Feb 2016

3. INSTALLATION AND LOCATION
Fort Greely, Alaska

4. PROJECT TITLE
Missile Defense Complex Switchgear Facility

5. PROJECT NUMBER
MDA 653

12. SUPPLEMENTAL DATA:

A. Estimated Design Data

(1) Status:
(a) Date Design Started
   Jul 2015
(b) Percent Complete As Of January 2016
   35%
(c) Date 35% Design Complete
   Jan 2016
(d) Date Design Complete
   Sep 2016
(e) Analogous Cost Estimating Used To Develop Cost
   Yes
(f) Type of Design Contract
   Design-Bid-Build

(2) Basis:
(a) Standard or Repetitive Design
   No
(b) Where Design Was Most Recently Used
   N/A
(3) Total Design Cost (c) = (a)+(b) or (d)+(e)
   ($000)
(a) Production of Plans and Specifications
   519
(b) All Other Design Costs
   346
(c) Total Design Costs
   865
(d) Contract
   606
(e) In-House
   259

(4) Contract Award
   Mar 2017
(5) Construction Start
   May 2017
(6) Construction Completion
   Aug 2019

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

<table>
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<tr>
<th>Equipment</th>
<th>Procuring Appropriation</th>
<th>FY Appropriated or Requested</th>
<th>Cost $(000)</th>
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</thead>
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1. COMPONENT: MDA

2. DATE: Feb 2016

3. INSTALLATION AND LOCATION: Wake Island

4. COMMAND: Missile Defense Agency

5. AREA CONSTR. COST INDEX: 2.61

6. PERSONNEL:

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<th>SUPPORTED</th>
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<tbody>
<tr>
<td>N/A: Tenant of U.S. Air Force</td>
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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 FY2017: .......... 11,670
   E. AUTHORIZATION REQUESTED IN THE FY2018: .......... 0
   F. PLANNED IN NEXT THREE PROGRAM YEARS: .......... 0
   G. REMAINING DEFICIENCY: .......... 0
   H. GRAND TOTAL: .......... 11,670

8. PROJECTS REQUESTED IN THE FY2017 PROGRAM:

<table>
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<tr>
<th>CATEGORY CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST ($000)</th>
<th>DESIGN STATUS</th>
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<tbody>
<tr>
<td>37110</td>
<td>Test Support Facility</td>
<td>8,200 SF</td>
<td>11,670</td>
<td>Oct 15 Oct 16</td>
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9. FUTURE PROJECTS:

<table>
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<tr>
<th>CATEGORY CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST ($000)</th>
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</thead>
</table>

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 Test Support Facility project is required to support at least 12 flight tests planned at Wake Island through 2024 per the MDA Integrated Master Test Plan including FTO-03 E2 which is currently scheduled for 4th QTR FY18.

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**
MDA

**FY 2017 MILITARY CONSTRUCTION PROJECT DATA**

**3. INSTALLATION AND LOCATION**
Wake Island

**4. PROJECT TITLE**
Test Support Facility

**2. DATE**
Feb 2016

**5. PROGRAM ELEMENT**
0603914C

**6. CATEGORY CODE**
37110

**7. PROJECT NUMBER**
MDA 662

**8. PROJECT COST ($000)**
11,670

**9. COST ESTIMATES**

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<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT COST</th>
<th>COST $(000)</th>
</tr>
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<tbody>
<tr>
<td>PRIMARY FACILITIES</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test Support Facility (37110)</td>
<td>m2</td>
<td>(8,200)</td>
<td>(1,041)</td>
<td>(8,536)</td>
</tr>
<tr>
<td>SUPPORTING FACILITIES</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site Electrical</td>
<td>LS</td>
<td></td>
<td>(663)</td>
<td>(1,929)</td>
</tr>
<tr>
<td>Water, Sewer</td>
<td>LS</td>
<td></td>
<td>(388)</td>
<td>(1,233)</td>
</tr>
<tr>
<td>Paving, Walks</td>
<td>LS</td>
<td></td>
<td>(213)</td>
<td>(649)</td>
</tr>
<tr>
<td>Site Improvement/Demo</td>
<td>LS</td>
<td></td>
<td>(174)</td>
<td>(536)</td>
</tr>
<tr>
<td>Information/Communications Systems</td>
<td>LS</td>
<td></td>
<td>(58)</td>
<td>(175)</td>
</tr>
<tr>
<td>Antiterrorism/Force Protection</td>
<td></td>
<td></td>
<td></td>
<td>(58)</td>
</tr>
<tr>
<td>SUBTOTAL</td>
<td></td>
<td></td>
<td></td>
<td>10,465</td>
</tr>
<tr>
<td>CONTINGENCY (5.00%)</td>
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<td></td>
<td></td>
<td>523</td>
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<tr>
<td>TOTAL CONTRACT COST</td>
<td></td>
<td></td>
<td></td>
<td>10,988</td>
</tr>
<tr>
<td>SIOH (6.20%)</td>
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<td></td>
<td></td>
<td>682</td>
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<td>TOTAL REQUEST</td>
<td></td>
<td></td>
<td></td>
<td>11,670</td>
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<tr>
<td>TOTAL REQUEST ROUNDED</td>
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<td>11,670</td>
</tr>
<tr>
<td>INSTALLED EQUIPMENT-OTHER APPROP</td>
<td></td>
<td></td>
<td></td>
<td>(500)</td>
</tr>
</tbody>
</table>

**10. DESCRIPTION OF PROPOSED CONSTRUCTION:** Construct supporting foundation and procure and install an insulated, pre-engineered, single-story, metal building. The facility includes mission execution workspace, office space, conference room, elevated storage, restrooms, and mechanical-electrical room. The project includes air conditioning (A/C), plumbing, power, lighting, lightning protection, fire alarm, and fire suppression.

Supporting facilities include site work to extend utilities to the facility; an aggregate access road; paving and walkways; information/communication infrastructure; connections to support backup power; and antiterrorism/force protection. The constructed facility will be designed to obtain LEED Silver Certification. A/C is estimated at 25 tons. The facility will provide work space for approximately 60 deployed personnel during test events.

**11. REQUIRED:** 8,200 SF

ADEQUATE: NONE

SUBSTANDARD: 7,100 SF

**PROJECT:** Construct a new test support facility on Wake Island for Ballistic Missile Defense System test missions. (Current Mission)

**REQUIREMENT:** MDA has an established test capability on and around Wake Island with an operational area covering almost a million square kilometers. The highly complex integrated test deployments executed by the Agency require extensive support. The Test Support Facility (TSF) is required to provide mission-critical support that would otherwise be unavailable on-island. The facility supports multiple Ballistic Missile Defense Test Stakeholders, including flight test communications and infrastructure personnel responsible for time critical infrastructure build-up activities; the Mission Execution Team responsible for managing and executing inherent on-island activities to support flight test execution; Operational Test Authority and other Warfighter representatives; and special dedicated contract Subject Matter Experts supporting birth to death test execution activities. The facility is a central hub from which test build-up, test support, and test execution personnel can support and manage all on-island mission activities. The facility also provides critical functionality necessary for forward deployed asset managers and test support personnel to coordinate with CONUS-based leadership prior to and during test execution, including voice communications, MDA network connectivity, and conference room
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>MDA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. DATE</td>
<td>Feb 2016</td>
</tr>
<tr>
<td>3. INSTALLATION AND LOCATION</td>
<td>Wake Island</td>
</tr>
<tr>
<td>4. PROJECT TITLE</td>
<td>Test Support Facility</td>
</tr>
<tr>
<td>5. PROJECT NUMBER</td>
<td>MDA 662</td>
</tr>
</tbody>
</table>
11. REQUIRED (CONTINUED): capacity to support MDA leadership. This facility enables deployed personnel to safely and securely meet all test support and test safety requirements on Wake Island. The new facility is required to replace the current functionality of Building 1601. Due to the facility’s poor condition and lack of other similar and available space on Wake, future mission personnel will have to be re-located into a new facility.

CURRENT SITUATION: The current support facility, Building 1601, has been heavily damaged by the corrosive environment on Wake Island and is now in a state of disrepair. The 611th Civil Engineering Squadron inspects Building 1601 annually and estimates it must be vacated within five years or less due to its poor condition. There are no other on-island facilities available to provide sufficient operations and support space.

IMPACT IF NOT PROVIDED: If not funded, MDA will have insufficient test support space required during test deployments to ensure successful completion of 12 future flight tests presently planned at Wake Island through 2024 (per MDA Integrated Master Test Plan). Building 1601 stands to be condemned within five years. Without a new facility to replace its capabilities, MDA will incur interoperability and test support space deficiencies. The new facility need date is based on the FTO-03 E2 test event scheduled for 4th QTR FY18.

ADDITIONAL INFORMATION: This project shall comply with UFC 1-200-01, “General Building Requirements”, providing model building codes and government-unique criteria for typical design disciplines and building systems, as well as for accessibility, antiterrorism, security, sustainability, and safety. All required NEPA and/or EO 12114 analyses will be completed prior to the start of construction. The siting master plan has been coordinated with the host installation and MDA will receive site approval prior to construction.

This project has been evaluated for compliance with Executive Order 11988 Flood Plain Management. Wake Island is subject to tsunamis and rogue waves which occasionally affect the island. The project has been sited to manage the risk of flood loss and minimize the impact of floods on human safety, health and welfare. Design will incorporate mitigation measures where feasible, and in accordance with current Air Force policy on island.

12. SUPPLEMENTAL DATA:

A. Estimated Design Date
   (1) Status:
      (a) Date Design Started          Oct 2015
      (b) Percent Complete As Of Jan 2016  5%
      (c) Date 35% Design Complete      May 2016
      (d) Date Design Complete          Oct 2016
      (e) Parametric Cost Estimating Used To Develop Cost  No
      (f) Type of Design Contract       Design-Bid-Build
   (2) Basis:
      (a) Standard or Repetitive Design  No
      (b) Where Design Was Most Recently Used  N/A
   (3) Total Cost (c) = (a) + (b) or (d) + (e)  ($000)
      (a) Production of Plans and Specifications  588
      (b) All Other Design Costs             392
      (c) Total Design Costs                980
      (d) Contract                          800
      (e) In-House                          180
12. SUPPLEMENTAL DATA (CONTINUED):

(4) Contract Award  Apr 2017
(5) Construction Start  Jul 2017
(6) Construction Completion  Mar 2018

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

<table>
<thead>
<tr>
<th>Equipment Nomenclature</th>
<th>Procuring Appropriation</th>
<th>FY Appropriated or Requested</th>
<th>Cost $(000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Furniture, Fixtures &amp; Equipment</td>
<td>RDT&amp;E</td>
<td>FY17</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total:</td>
<td>500</td>
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