Missile Defense Agency
FY 2017 Military Construction, Defense-Wide
($ in Thousands)

State/Country/Installation/Project	Authorization Request	Approp. Request	New/Current Mission	Page No.
Alaska				
Clear Air Force Station (AFS)				
Long Range Discrimination Radar System Complex, Phase 1	155,000	155,000	N	91
Fort Greely				
Missile Defense Complex Switchgear Facility	9,560	9,560	C	96
Wake Island				
Wake Island Air Base				
Test Support Facility	11,670	11,670	C	100
Total	**176,230**	**176,230**		

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		Feb 2016

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONSTR. COST INDEX
Clear AFS, Alaska	Missile Defense Agency	2.44

6. PERSONNEL

STRENGTH:	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL
N/A: Tenant of U.S. Air Force										

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:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
1413	Long Range Discrimination Radar System Complex, Phase 1	1 EA	155,000	Jan 15	Sep 16

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
8111	Long Range Discrimination Radar System Complex, Phase 2	1 EA	150,000
		Total:	150,000

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 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

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		Feb 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Clear AFS, Alaska	Long Range Discrimination Radar System Complex, Phase 1

8. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0604873C	1413	MDA 657	155,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST $(000)
PRIMARY FACILITIES				75,751
Mission Control Facility (141391)	m2 (SF)	5,574 (60,000)	10,646 (989)	(59,340)
Radar Foundation	LS			(2,607)
Special Construction	LS			(9,150)
Nearfield Antenna (132134)	EA	2	350,000	(700)
Entry Control Facility (730837)	m2 (SF)	102 (1,100)	7,280 (676)	(744)
Antiterrorism/Force Protection	LS			(2,180)
Security Infrastructure/ESS	LS			(1,030)
SUPPORTING FACILITIES				62,857
Electric Service	LS			(24,491)
Water, Sewer	LS			(11,179)
Paving, Walks	LS			(1,137)
Site Imp (11.5M)/ Demo (1.4M)	LS			(12,900)
Information/Communication Systems	LS			(4,060)
Temporary Infrastructure Mob/Demob	LS			(9,090)
SUBTOTAL				138,608
CONTINGENCY (5.00%)				6,931
TOTAL CONTRACT COST				145,539
SIOH (6.50%)				9,461
TOTAL REQUEST				155,000
TOTAL ROUNDED REQUEST				155,000
INSTALLED EQUIPMENT-OTHER APPROP				(893,728)

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.

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1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		Feb 2016

3. INSTALLATION AND LOCATION
Clear AFS, Alaska

4. PROJECT TITLE	5. PROJECT NUMBER
Long Range Discrimination Radar System Complex, Phase 1	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 BMEWS 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	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		Feb 2016

3. INSTALLATION AND LOCATION
Clear AFS, Alaska

4. PROJECT TITLE	5. PROJECT NUMBER
Long Range Discrimination Radar System Complex, Phase 1	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

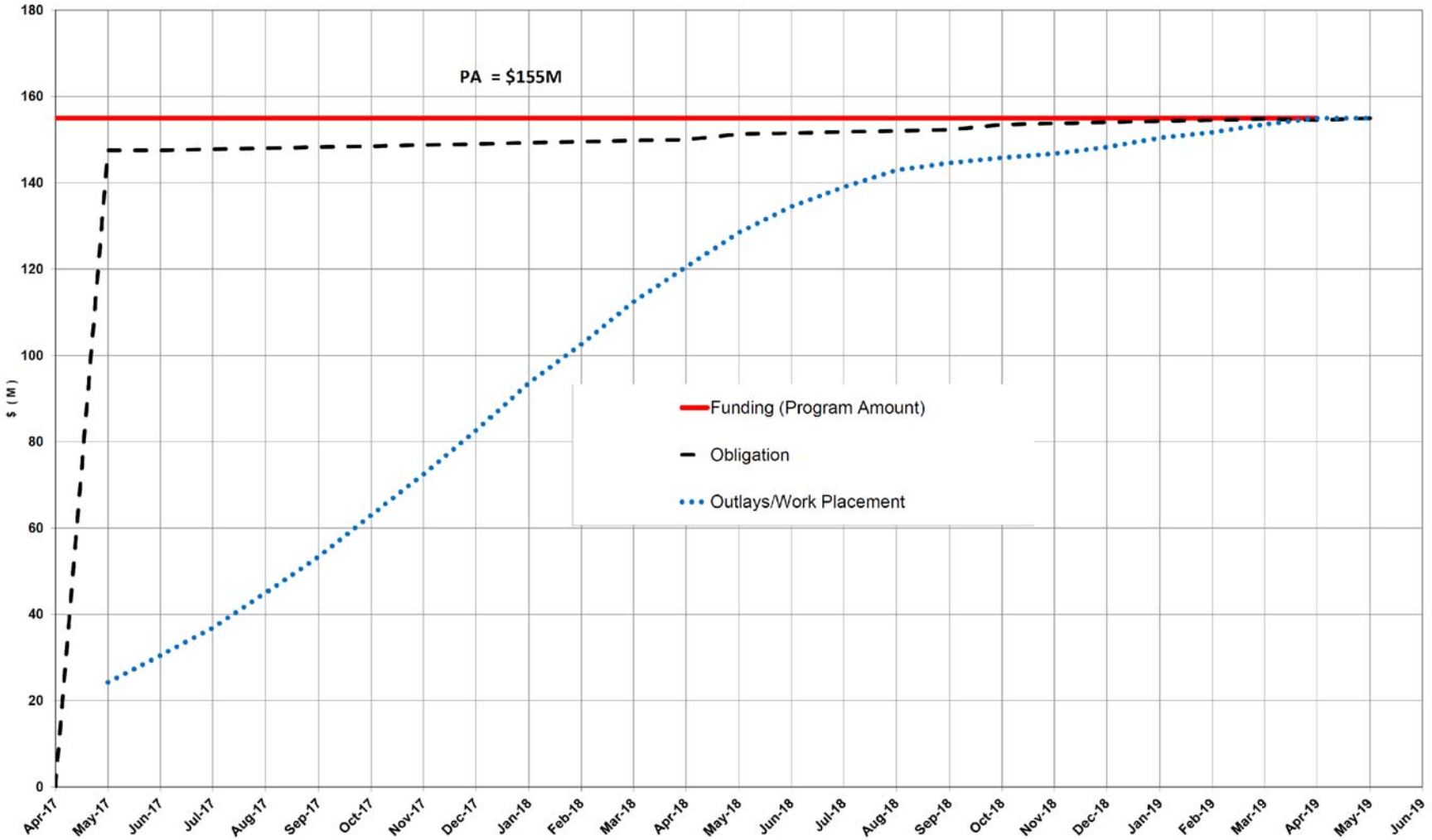
B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Appropriation	FY Appropriated or Requested	Cost $(000)
Radar System Equipment & Encl.	RDT&E	FY16-FY21	868,758
Mission Comms Equipment			
Security Equipment (IESS)			
Installed Building Equipment			
Commercial Power Extension			
Demil/Remove BMEWS Antenna/Equip/Radars	RDT&E	FY16-FY17	100
Site Activation	RDT&E	FY16-FY18	24,870
		TOTAL:	893,728

DD FORM 1391

US Army Corps of Engineers

Missile Defense Agency (MDA) Long Range Discrimination Radar System Complex, Phase 1
Alaska (MDA Project #657) - Work In Progress (WIP) Curve , date 19 Jan 2016



1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		Feb 2016

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONSTR. COST INDEX
Fort Greely, Alaska	Missile Defense Agency	2.45

6. PERSONNEL	PERMANENT			STUDENTS			SUPPORTED			
STRENGTH:	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL
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 ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
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

DD FORM 1390

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		Feb 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Fort Greely, Alaska	Missile Defense Complex Switchgear Facility

8. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0603882C	89113	MDA 653	9,560

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST $(000)
PRIMARY FACILITIES				7,590
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				959
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.

DD FORM 1391

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		Feb 2016

3. INSTALLATION AND LOCATION
Fort Greely, Alaska

4. PROJECT TITLE	5. PROJECT NUMBER
Missile Defense Complex Switchgear Facility	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.

DD FORM 1391

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		Feb 2016

3. INSTALLATION AND LOCATION
Fort Greely, Alaska

4. PROJECT TITLE	5. PROJECT NUMBER
Missile Defense Complex Switchgear Facility	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:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost $(000)
Security Equipment	RDT&E	FY17	100
		Total:	100

DD FORM 1391

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		Feb 2016

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONSTR. COST INDEX
Wake Island	Missile Defense Agency	2.61

6. PERSONNEL	PERMANENT			STUDENTS			SUPPORTED			
STRENGTH:	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL
N/A: Tenant of U.S. Air Force										

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:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
37110	Test Support Facility	8,200 SF	11,670	Oct 15	Oct 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 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	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		Feb 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Wake Island	Test Support Facility

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0603914C	37110	MDA 662	11,670

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST $(000)
PRIMARY FACILITIES				8,536
Test Support Facility (37110)	m2 (SF)	762 (8,200)	11,205 (1,041)	(8,536)
SUPPORTING FACILITIES				1,929
Site Electrical	LS			(863)
Water, Sewer	LS			(388)
Paving, Walks	LS			(233)
Site Improvement/Demo	LS			(213)
Information/Communications Systems	LS			(174)
Antiterrorism/Force Protection	LS			(58)
SUBTOTAL				10,465
CONTINGENCY (5.00%)				523
TOTAL CONTRACT COST				10,988
SIOH (6.20%)				682
TOTAL REQUEST				11,670
TOTAL REQUEST ROUNDED				11,670
INSTALLED EQUIPMENT-OTHER APPROP				(500)

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

DD FORM 1391

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		Feb 2016

3. INSTALLATION AND LOCATION	
Wake Island	

4. PROJECT TITLE	5. PROJECT NUMBER
Test Support Facility	MDA 662

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

DD FORM 1391

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		Feb 2016

3. INSTALLATION AND LOCATION	
Wake Island	

4. PROJECT TITLE	5. PROJECT NUMBER
Test Support Facility	MDA 662

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:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost $(000)
Furniture, Fixtures & Equipment	RDT&E	FY17	500
		Total:	500