



Department of the Air Force

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# **Military Construction Program**

**Fiscal Year (FY) 2023  
Budget Estimates**

**Justification Data Submitted to  
Congress Apr 2022**

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**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2023  
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**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION FISCAL  
YEAR 2023 PROGRAM SUMMARY**

	<b>Authorization Request <u>(\$000s)</u></b>	<b>Appropriation Request <u>(\$000s)</u></b>
<b>Military Construction</b>		
<b>Baseline Major Construction</b>	<b>1,442,300</b>	<b>1,853,500</b>
<b>Unspecified Minor Construction (10 USC 2805)</b>	-	<b>66,162</b>
<b>Planning and Design (10 USC 2807)</b>	-	<b>135,794</b>
<b>Total Military Construction</b>	<b>1,442,300</b>	<b>2,055,456</b>

**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2023  
INDEX - INSIDE THE US  
(DOLLARS IN THOUSANDS)**

STATE	INSTALLATION	PROJECT	AUTHORIZATION APPROPRIATION	
			REQUEST	REQUEST
ALASKA	Clear	LRDR Dormitory	68,000	68,000
		Clear TOTAL:	68,000	68,000
	JB Elmendorf-Richardson	Extend Runway 16/34, Inc 2	-	100,000
		JB Elmendorf-Richardson TOTAL:	-	100,000
ALASKA TOTAL:			68,000	168,000
CALIFORNIA	Vandenberg	GBSD Consolidated Mx Facility	89,000	89,000
		Vandenberg TOTAL:	89,000	89,000
	CALIFORNIA TOTAL:			89,000
LOUISIANA	Barksdale	Weapons Generation Facility, Inc 2	-	125,000
		Barksdale TOTAL:	-	125,000
	LOUISIANA TOTAL:			-
MASSACHUSETTS	Hanscom	MIT-Lincoln Lab (West Lab CSL/MIF), Inc	-	30,200
		Hanscom TOTAL:	-	30,200
	MASSACHUSETTS TOTAL:			-
OKLAHOMA	Tinker	Facility and Land Aquisition (MROTC)	30,000	30,000
		KC-46 3-Bay Depot Maintenance and Hangar, Inc 2	-	49,000
		KC-46A Fuel POL Infrastructure	13,600	13,600
	Tinker TOTAL:	43,600	92,600	
OKLAHOMA TOTAL:			43,600	92,600
SOUTH CAROLINA	Shaw	RAPCON Facility	10,000	10,000
		Shaw TOTAL:	10,000	10,000
	SOUTH CAROLINA TOTAL:			10,000
SOUTH DAKOTA	Ellsworth	B-21 2-Bay LO Restoration Facility, Inc 3	-	91,000
		B-21 Weapons Generation Facility, Inc 1	251,000	50,000
		B-21 Radio Frequency Facility	77,000	77,000
	Ellsworth TOTAL:	328,000	218,000	
SOUTH DAKOTA TOTAL:			328,000	218,000
TENNESSEE	Arnold	Arc Heater Test Facility, Dragon Fire	38,000	38,000
		Arnold TOTAL:	38,000	38,000
	TENNESSEE TOTAL:			38,000
TEXAS	JBSA-Lackland	BMT Recruit Dormitory 7, Inc 2	-	90,000
		JBSA-Lackland TOTAL:	-	90,000
	TEXAS TOTAL:			-
UTAH	Hill	GBSD Organic Software Sustainment Center, Inc 3	-	95,000
		GBSD Technology and Collaboration Center	84,000	84,000
	Hill TOTAL:	84,000	179,000	
UTAH TOTAL:			84,000	179,000
WYOMING	FE Warren	GBSD Integrated Command Center	95,000	95,000
		GBSD Missile Handling Facility	47,000	47,000
		GBSD Land Acquisition, Phase 1	34,000	34,000
	FE Warren TOTAL:	176,000	176,000	
WYOMING TOTAL:			176,000	176,000
INSIDE THE US TOTAL:			836,600	1,215,800

**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2023  
INDEX - OUTSIDE THE US  
(DOLLARS IN THOUSANDS)**

STATE	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
COMMONWEALTH OF THE NORTHERN MARIANAS ISLANDS	Tinian	PDI: Airfield Development Phase 1, Inc 2	-	58,000
		PDI: Fuel Tanks with Pipeline & Hydrant System, Inc 2	-	92,000
		PDI: Parking Apron, Inc 2	-	41,000
		Tinian TOTAL:	-	191,000
	COMMONWEALTH OF THE NORTHERN MARIANAS ISLANDS TOTAL:		-	191,000
HUNGARY	Papa	EDI: DABS-FEV Storage	71,000	71,000
			Papa TOTAL:	71,000
		HUNGARY TOTAL:		71,000
ICELAND	Keflavik	EDI: DABS-FEV Storage	94,000	94,000
			Keflavik TOTAL:	94,000
		ICELAND TOTAL:		94,000
ITALY	Aviano	Combat Rescue Helicopter Simulator Facility	15,500	15,500
		EDI: RADR Storage Facility	31,000	31,000
		Aviano TOTAL:	46,500	46,500
	ITALY TOTAL:		46,500	46,500
JAPAN	Kadena	Helicopter Rescue Operations Maintenance Hangar, Inc 2	-	71,000
		PDI: Theater Aircraft Corrosion Control Center, Inc 1	307,000	77,000
		Kadena TOTAL:	307,000	148,000
	JAPAN TOTAL:		307,000	148,000
JORDAN	Muwaffaq Salti AB	Bulk Petroleum/Oil/Lubricants Storage	32,000	32,000
		Fuel Cell and Phase Maintenance Hangars	18,000	18,000
		Muwaffaq Salti TOTAL:	50,000	50,000
	JORDAN TOTAL:		50,000	50,000
NORWAY	RyggeAB	EDI: Base Perimeter Security Fence	8,200	8,200
			Rygge TOTAL:	8,200
		NORWAY TOTAL:		8,200
SPAIN	Moron	EDI: Rapid Airfield Damage Repair Storage	29,000	29,000
			Moron TOTAL:	29,000
		SPAIN TOTAL:		29,000
	OUTSIDE THE US TOTAL:		605,700	637,700
WORLDWIDE UNSPECIFIED	Various Locations	Planning and Design	-	11,722
		Planning and Design	-	12,424
		Planning And Design	-	111,648
		Unspecified Minor Military Construction	-	66,162
			WORLDWIDE UNSPECIFIED TOTAL:	-
	INSIDE THE US TOTAL:		836,600	1,215,800
	OUTSIDE THE US TOTAL:		605,700	637,700
	WORLDWIDE UNSPECIFIED TOTAL:		-	201,956
	FY 2023 TOTAL:		1,442,300	2,055,456

**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2023  
NEW AND CURRENT MISSION**

**DEFINITIONS OF NEW AND CURRENT MISSION**

**NEW MISSION PROJECTS** – New mission projects all support new and additional programs or initiatives that do not revitalize the existing physical plant. These projects support the deployment and bed-down of new weapons systems: new or additional aircraft, missile and space projects; new equipment, e.g. radar, communication, computer satellite tracking and electronic security.

**CURRENT MISSION PROJECTS** – These projects revitalize the existing facility plant by replacing or upgrading existing facilities and alleviating long-standing deficiencies not generated by new missions or equipment. Included are projects to improve the quality of life, upgrade the workplace, enhance productivity and achieve compliance with environmental, health and safety standards.

<b><u>FY23</u></b>	<b>Appropriation Request <u>(\$000)</u></b>
<b>NEW MISSION</b>	<b>1,546,300</b>
<b>CURRENT MISSION</b>	<b>307,200</b>
<b>PLANNING &amp; DESIGN</b>	<b>135,794</b>
<b>MINOR CONSTRUCTION</b>	<b>66,162</b>
<b>TOTAL:</b>	<b>2,055,456</b>



**DEPARTMENT OF THE AIR FORCE**  
**MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2023**  
**INDEX - CURRENT/NEW MISSION BREAKOUT**  
**(DOLLARS IN THOUSANDS)**

STATE/COUNTRY	INSTALLATION	PROJECT	APPROPRIATION REQUEST	TYPE
ALASKA	JB Elmendorf-Richardson	Extend Runway 16/34, Inc 2	100,000	CM
JAPAN	Kadena	PDI: Theater A/C Corrosion Control Ctr, Inc 1	77,000	CM
MASSACHUSETTS	Hanscom	MIT-Lincoln Lab (West Lab CSL/MIF), Inc	30,200	CM
SOUTH CAROLINA	Shaw	RAPCON Facility	10,000	CM
TEXAS	JBSA-Lackland	BMT Recruit Dormitory 7, Inc 2	90,000	CM
<b>Current Mission TOTAL</b>			<b>307,200</b>	
STATE/COUNTRY	INSTALLATION	PROJECT	APPROPRIATION REQUEST	TYPE
ALASKA	Clear	LRDR Dormitory	68,000	NM
CALIFORNIA	Vandenberg	GBSD Consolidated Mx Facility	89,000	NM
COMMONWEALTH OF THE NORTHERN MARIANAS ISLANDS	Tinian	PDI: Airfield Development Phase 1, Inc 2	58,000	NM
COMMONWEALTH OF THE NORTHERN MARIANAS ISLANDS	Tinian	PDI: Fuel Tanks with Pipeline & Hydrant System, Inc 2	92,000	NM
COMMONWEALTH OF THE NORTHERN MARIANAS ISLANDS	Tinian	PDI: Parking Apron, Inc 2	41,000	NM
HUNGARY	Papa	EDI: DABS-FEV Storage	71,000	NM
ICELAND	Keflavik	EDI: DABS-FEV Storage	94,000	NM
ITALY	Aviano	Combat Rescue Helicopter Simulator Facility	15,500	NM
ITALY	Aviano	EDI: RADR Storage Facility	31,000	NM
JAPAN	Kadena	Helicopter Rescue Operations Maintenance Hangar, Inc 2	71,000	NM
JORDAN	Muwaffaq Salti	Bulk Petroleum/Oil/Lubricants Storage	32,000	NM
JORDAN	Muwaffaq Salti	Fuel Cell and Phase Maintenance Hangars	18,000	NM
LOUISIANA	Barksdale	Weapons Generation Facility, Inc 2	125,000	NM
NORWAY	Rygge	EDI: Base Perimeter Security Fence	8,200	NM
OKLAHOMA	Tinker	Facility and Land Acquisition (MROTC)	30,000	NM
OKLAHOMA	Tinker	KC-46A 3-Bay Depot Maintenance Hangar, Inc 2	49,000	NM
OKLAHOMA	Tinker	KC-46A Fuel POL Infrastructure	13,600	NM
SOUTH DAKOTA	Ellsworth	B-21 2-Bay LO Restoration Facility, Inc 3	91,000	NM
SOUTH DAKOTA	Ellsworth	B-21 Radio Frequency Facility	77,000	NM
SOUTH DAKOTA	Ellsworth	B-21 Weapons Generation Facility, Inc 1	50,000	NM
SPAIN	Moron	EDI: Rapid Airfield Damage Repair Storage	29,000	NM
TENNESSEE	Arnold	Arc Heater Test Facility, Dragon Fire	38,000	NM
UTAH	Hill	GBSD Organic Software Sustainment Center, Inc 3	95,000	NM
UTAH	Hill	GBSD Technology and Collaboration Center	84,000	NM
WYOMING	FE Warren	GBSD Integrated Command Center	95,000	NM
WYOMING	FE Warren	GBSD Land Acquisition, Phase 1	34,000	NM
WYOMING	FE Warren	GBSD Missile Handling Complex	47,000	NM
<b>New Mission TOTAL:</b>			<b>1,546,300</b>	
WORLDWIDE UNSPECIFIED	Various Locations	Planning and Design	135,794	P&D
WORLDWIDE UNSPECIFIED	Various Locations	Unspecified Minor Military Construction	66,162	UMMC
<b>Central Program TOTAL:</b>			<b>201,956</b>	
<b>Active AF Program TOTAL:</b>			<b>2,055,456</b>	

**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2023  
INSTALLATION INDEX**

<u><b>INSTALLATION</b></u>	<u><b>COMMAND</b></u>	<u><b>STATE/COUNTRY</b></u>	<u><b>PAGE</b></u>
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HANSCOM	AFMC	MASSACHUSETTS	45
RYGGE	USAFE	NORWAY	210
TINKER	AFMC	OKLAHOMA	53
SHAW	ACC	SOUTH CAROLINA	69
ELLSWORTH	AFGSC	SOUTH DAKOTA	75
MORON	USAFE	SPAIN	215
ARNOLD	AFMC	TENNESSEE	95
JBSA-LACKLAND	AETC	TEXAS	101
HILL	AFMC	UTAH	110
FE WARREN	AFGSC	WYOMING	122

**ACC – AIR COMBAT COMMAND**

**AETC – AIR EDUCATION AND TRAINING COMMAND**

**AFGSC – AIR FORCE GLOBAL STRIKE COMMAND**

**AFMC – AIR FORCE MATERIEL COMMAND**

**PACAF – PACIFIC AIR FORCES**

**USAFE – UNITED STATES AIR FORCE – EUROPE**

**USSF – UNITED STATES SPACE FORCE**

**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2023  
SPECIAL PROGRAM CONSIDERATIONS**

**ECONOMIC CONSIDERATIONS**

An economic evaluation has been accomplished for all projects costing over \$2M where viable options existed and the results are addressed in the individual DD Forms 1391.

**DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL**

In accordance with Public Law 90-480 provisions for physically handicapped personnel will be provided for, where appropriate, in the design of facilities included in this program.

**ENVIRONMENTAL STATEMENT**

In accordance with Section 102(2)(c) of the National Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process (EIAP) has been completed or is actively underway for all projects in the Air Force FY 2023 Military Construction Program.

**EVALUATION OF FLOOD PLAINS AND WETLANDS**

All projects in the program have 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. Projects have been sited to avoid or reduce 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.

**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2023  
CONGRESSIONAL REPORTING REQUIREMENTS**

**1. STATEMENTS ON NATO ELIGIBILITY**

These are in response to the requirement in the FY 1988 Senate Appropriations Committee Report, 100-200, page 13, and are included in the appropriate project justification.

**2. NEW AND CURRENT MISSION ACTIVITIES**

The FY 1989 Senate Appropriations Committee Report, 100-380, pages 10 and 11, identified a requirement to include an exhibit in the budget justification books that displayed required projects in two separate categories: New Mission and Current Mission. The CM (current mission) or NM (new mission) designation, which follows the project on the listing at page 10, identifies each project as new or current mission. Additionally, each justification in Block 11 of the DD Form 1391 indicates whether the project supports a new or current mission.

**3. REAL PROPERTY ADMINISTRATION**

The FY 1977 House Appropriations Committee Report, 104-591, page 11, requested the Department to provide the real property maintenance backlog at all installations for which there is a requested construction project. Each DD Form 1390 reflects this information in block 12. In addition, the report requested all troop housing requests to show all real property maintenance conducted in the past two years and all future requirements for unaccompanied housing at that installation. Each DD Form 1391 for troop housing reflects this information in block 11.

**4. METRIC CONVERSION**

The FY 1999 House Appropriation Committee Report, 105-578, page 11, requested the Department to ensure that any Form 1390/1391, which is presented as justification in metric measurement, shall include parenthetically the English measurement. Each DD Form 1391 reflects the metric and English equivalent in block 11.

**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2023  
APPROPRIATION SOUGHT FOR PREVIOUSLY AUTHORIZED PROJECTS**

**APPROPRIATIONS SOUGHT FOR FY20 AUTHORIZATIONS**

In the FY2023 President’s Budget, the Department is requesting appropriation in the amount of \$191.0 million total for three projects that were authorized in the National Defense Authorization Act for Fiscal Year 2020 (P.L. 116-92). Fuel Tanks with Pipeline and Hydrant System, Airfield Development Phase 1 and Parking Apron projects at Tinian were authorized and the Department is requesting the amounts be appropriated as specified in this budget estimate.

**APPROPRIATIONS SOUGHT FOR FY21 AUTHORIZATIONS**

In the FY2023 President’s Budget, the Department is requesting appropriation in the amount of \$186.0 million total for two projects that were authorized in the National Defense Authorization Act for Fiscal Year 2021 (P.L. 116-283). The B-21 2-Bay LO Restoration Facility at Ellsworth Air Force Base and the Ground Based Strategic Deterrent (GBSD) Organic Software Sustainment Center at Hill Air Force Base were authorized and the Department is requesting the amounts be appropriated as specified in this budget estimate.

**APPROPRIATIONS SOUGHT FOR FY22 AUTHORIZATIONS**

In the FY2023 President’s Budget, the Department is requesting appropriation in the amount of \$435.0 million total for five projects that were authorized in the National Defense Authorization Act for Fiscal Year 2022 (P.L. 117-81). Extend Runway 16/34 at Joint Base Elmendorf-Richardson, Weapons Generation Facility (WGF) at Barksdale Air Force Base, KC-46A 3-Bay Depot Maintenance Hangar at Tinker Air Force Base, Basic Military Training (BMT) Recruit Dormitory 7 at Joint Base San Antonio and Helicopter Rescue Operations Maintenance Hangar at Kadena Air Base were authorized and the Department is requesting the amounts be appropriated as specified in this budget estimate.

**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2023  
APPROPRIATION LANGUAGE**

**FY2023 MILITARY CONSTRUCTION AIR FORCE**

**For acquisition, construction, installation and equipment of temporary or permanent public works, military installations, facilities, and real property of the Air Force as currently authorized by law, \$2,055,456,000 to remain available until September 30, 2027: Provided that, of this amount, not to exceed \$135,794,000 shall be available for study, planning, design, and architect and engineer services, as authorized by law, unless the Secretary of the Air Force determines that additional obligations are necessary for such purposes and notifies the Committees on Appropriations of both Houses of Congress of the determination and the reason therefor.**

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20220308				
<b>3. INSTALLATION AND LOCATION</b> CLEAR SPACE FORCE STATION, ALASKA				<b>4. COMMAND</b> UNITED STATES SPACE FORCE			<b>5. AREA CONSTRUCTION COST INDEX</b> 2.52				
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
		<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF 30-Sep21		22	111	186	0	0	0	0	0	24	343
b. END FY		27	128	215	0	0	0	0	0	43	413
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE										11,438	
b. INVENTORY TOTAL AS OF 30-Sep-21										1,140,813.00	
c. AUTHORIZATION NOT YET IN INVENTORY										20,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										68,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										68,200.00	
h. GRAND TOTAL										1,297,013.00	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>											
<b>a. CATEGORY</b>				<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>					
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>		<b>(3) SCOPE</b>			<b>(1) START</b>	<b>(2) COMPLETE</b>				
721-312	LRDR DORMITORY		3,704 SM		68,000	11/20	06/22				
<b>9. FUTURE PROJECTS</b>											
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
Clear Space Force Station is one of the most strategically important installations in the United States. The location of the base places it in an invaluable position for defensive monitoring of the west coast and United States as a whole. The station is one of the first in a series of early detection installations that monitor for enemy ballistic missile and intercontinental nuclear ballistic missile launch.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>											

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION CLEAR SPACE FORCE STATION ALASKA		4. PROJECT TITLE: LRDR DORMITORY		
5. PROGRAM ELEMENT 91211S	6. CATEGORY CODE 721-312	7. PROJECT NUMBER DXEB163001	8. PROJECT COST (\$000) 68,000	
9. COST ESTIMATE				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				40,363
DORMITORY AIRMAN PERMANENT PARTY (721-312)	SM	3,704	10,468	(38,773)
COVERED WALKWAY (852-287)	LM	91	14,725	(1,340)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(250)
SUPPORTING FACILITIES				18,754
ELECTRICAL UPGRADES	LS			(6,345)
UTILITIES	LS			(5,785)
SITE IMPROVEMENTS	LS			(1,750)
RELOCATE ATHLETIC FIELD/COURT	LS			(1,225)
COMMUNICATIONS	LS			(868)
EMERGENCY GENERATOR	KW	300	4,520	(1,356)
SITE PREPARATIONS	LS			(1,425)
SUBTOTAL				59,117
CONTINGENCY (5.0%)				2,956
TOTAL CONTRACT COST				62,073
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				3,538
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				2,365
TOTAL REQUEST				67,976
TOTAL REQUEST (ROUNDED)				68,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,290)
10. DESCRIPTION OF PROPOSED WORK: Construct an 84 Person, three story dorm consisting of a reinforced concrete foundation with slab on grade, reinforced concrete masonry walls with exterior insulation finishing system finish and a standing seam metal roof. Facility requires a severe-weather passageway from a new dorm to current dorms at a central location and site improvements to adequately support a campus site development. Project will provide roadway, re-routed power and communications duct bank system, Personal Owner Vehicle parking with head bolt outlets, courtyard, and all other supporting facilities for a complete and usable facility including fire protection services, utilities, pavements, area lighting, site improvements and				



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION CLEAR SPACE FORCE STATION ALASKA		4. PROJECT TITLE: LRDR DORMITORY		
5. PROGRAM ELEMENT 91211S	6. CATEGORY CODE 721-312	7. PROJECT NUMBER DXEB163001	8. PROJECT COST (\$000) 68,000	
<p>communications. Project will relocate athletic fields/courts and relocate the Morale, Welfare, Recreation yard and landscaping. Project will provide a heating system, sized to meet facility heating, domestic water heating and ventilation heating loads for the facility, a connection to the existing installation steam distribution system to satisfy heating, and a hydronic boiler as redundant heating source for backup of existing steam source. Upgrade substation, install new feeder conductors to establish loop-feed. Project will include emergency generator and fuel tank as authorized by Air Force Instruction 32-1062. Facility will be designed as a permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Antiterrorism/ Force Protection requirements per Unified Facility Criteria 4-010-01.</p> <p>Air Conditioning: 20 Tons</p>				
<p>11. REQUIREMENT: 3,704 SM      ADEQUATE: 0 SM      SUBSTANDARD: 0 SM PROJECT: LRDR DORMITORY</p> <p>REQUIREMENT: A properly sized and configured dormitory and necessary infrastructure to support the Long Range Discrimination Radar new mission bed-down at Clear Space Force Station. The Missile Defense Agency acquisition of Long Range Discrimination Radar requires increased permanent manpower on site to provide adequate security, engineering and logistics. Clear Space Force Station will not have the dormitory capacity to support the additional personnel required to support the Long Range Discrimination Radar mission without this project. Additional utilities, especially heat and power capacity, must be provided. Facilities on Clear Space Force Station are connected via above ground passageways to allow personnel to transit from dorms to dining, administrative and services facilities during severely inclement weather, therefore an above ground passageway is also required as part of this project. A backup generator is required to prevent freezing during winter power outages, and to meet National Fire Protection Association requirements for the electric fire pump.</p> <p>CURRENT SITUATION: Long Range Discrimination Radar will be constructed, operated and sustained by the United States Space Force (USSF) at Clear Space Force Station. Manpower increases will be required before Long Range Discrimination Radar transfers to Space Force for operation and sustainment. These additional mission essential personnel must have accommodations and there is no adequate off-base housing. Available dorm space is inadequate to support existing missions today. Clear Space Force Station recently switched over from on-site</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION CLEAR SPACE FORCE STATION ALASKA		4. PROJECT TITLE: LRDR DORMITORY		
5. PROGRAM ELEMENT 91211S	6. CATEGORY CODE 721-312	7. PROJECT NUMBER DXEB163001	8. PROJECT COST (\$000) 68,000	
<p>cogeneration (electric power and steam heating) to a commercial electric connection and standalone oil-fired steam heat plant. The steam heat plant was sized to support current heat load requirements. No additional capacity is available to support a new 84 Person dormitory under the lowest temperature design conditions. Commercial electric power is currently provided through a single 138kV to 4160 Volt step down transformer. Failure of this transformer would result in long term operation of the mission on emergency generators without any back-up capability. Lead time for a replacement transformer is 9 to 18 months and no temporary transformer is available. Therefore a redundant step down transformer is required to improve mission resiliency. The existing medium voltage distribution in the area is not loop-feed. A loop-feed is necessary to provide an alternate route for power in the event of a distribution failure during winter months.</p> <p>IMPACT IF NOT PROVIDED: Additional mission essential personnel required for Long Range Discrimination Radar will not have accommodations to support the mission requirements. The local housing market does not offer sufficient alternatives and comes with associated lodging, per diem and transportation costs. Time on station would be reduced and could result in additional manning requirements. Weather conditions may result in the inability of personnel to make it to the installation to perform their duties.</p> <p>ADDITIONAL: This project meets the applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. The Supporting Facilities costs exceed 25% of the Primary Facilities costs due to the upgrade of existing substation, the extensive utility connections and pavements work required to make this a complete and usable facility. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. Add/Alter is the only viable option to meet this requirement. A Waiver to an Economic Analysis has been approved for this project.</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION CLEAR SPACE FORCE STATION ALASKA		4. PROJECT TITLE: LRDR DORMITORY		
5. PROGRAM ELEMENT 91211S	6. CATEGORY CODE 721-312	7. PROJECT NUMBER DXEB163001	8. PROJECT COST (\$000) 68,000	
<p>This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>21 Civil Engineer Squadron, Base Civil Engineer: (719) 556-4900  Dormitory Airman Permanent Party: 3,704 SM = 39,870 Square Feet  Covered Walkway: 91 LM = 299 Linear Feet</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION CLEAR SPACE FORCE STATION ALASKA		4. PROJECT TITLE: LRDR DORMITORY	
5. PROGRAM ELEMENT 91211S	6. CATEGORY CODE 721-312	7. PROJECT NUMBER DXEB163001	8. PROJECT COST (\$000) 68,000
12. SUPPLEMENTAL DATA			
a. Estimated Design Data:			
(1) Status			
(a) Type of Design			Design-Build
(b) Date Design Started			05-NOV-20
(c) Parametric Cost Estimates used to develop costs			YES
(d) Percent Complete as of 01 JAN 2022			65%
(e) Date 35% Designed			26-FEB-21
(f) Date Design Complete			30-JUN-22
(g) Energy Study/Life-Cycle cost analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive 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			2,478
(b) All Other Design Costs			1,277
(c) Total			3,755
(d) Contract			2,816
(e) In-house			939
(4) Construction Contract Award			23-FEB
(5) Construction Start			23-MAR
(6) Construction Completion			25-SEP
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
COMMUNICATIONS EQUIPMENT	3080	2025	310
FURNISHINGS	3400	2025	980

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE (YYYYMMDD)</b> 20220308			
<b>3. INSTALLATION AND LOCATION</b> JOINT BASE ELMENDORF-RICHARDSON, ALASKA					<b>4. COMMAND</b> PACIFIC AIR FORCES			<b>5. AREA CONSTRUCTION COST INDEX</b> 2.0			
<b>6. PERSONNEL</b>		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-SEP-21	792	4,858	1,866	0	0	0	320	1,642	272	9,750
b. END FY		792	4,858	1,867	0	0	0	320	1,640	271	9,748
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE										78,697	
b. INVENTORY TOTAL AS OF 30-SEP-21										14,866,526.00	
c. AUTHORIZATION NOT YET IN INVENTORY										29,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										0.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										301,600.00	
h. GRAND TOTAL										15,197,126.00	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>											
a. CATEGORY			(3) SCOPE			b. COST (\$000)		c. DESIGN STATUS			
(1) CODE	(2) PROJECT TITLE					(1) START		(2) COMPLETE			
111-111	EXTEND RUNWAY 16/34, INC 2		40,481 SM			100,000	06/19	07/21			
<b>9. FUTURE PROJECTS</b> 111-111 EXTEND RUNWAY 16/34, INC 3 (40,481 SM / \$72,000)											
<b>10. MISSION OR MAJOR FUNCTIONS</b> JBER is home to the 3rd Wing (3WG), HQ Alaskan Command, HQ U.S. Army Alaska, Alaskan NORAD Region, and 11th Air Force. Its mission provides air supremacy, surveillance, worldwide airlift, and agile combat support forces to project global power and global reach and training and readiness oversight responsibilities for Army Force Generation in Alaska. It is host to an operations group with squadrons of E-3B, C-17, F-22A and C-12 aircraft, as well as 15 tenant units including the Air Force Reserve's 477th Fighter Group, among others.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b> N/A											

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AIR FORCE BASE SITE #1 ALASKA			4. PROJECT TITLE EXTEND RUNWAY 16/34, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 111-111	7. PROJECT NUMBER FXSB143004	8. PROJECT COST (\$000) AUTH: 0 APPR: 100,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				70,640
RUNWAY (111-111) ADD	SM	40,481	355	(14,371)
TAXIWAY (112-211) ADD	SM	54,219	428	(23,206)
RUNWAY (111-111) ALTER	SM	98,875	94	(9,294)
TAXIWAY (112-211) ALTER	SM	18,471	156	(2,881)
ARMING AND DISARMING PADS (116-661) ALTER	SM	10,904	216	(2,355)
OVERRUN, PAVED (111-115) ADD	SM	13,936	227	(3,163)
OVERRUN, PAVED (111-115) ALTER	SM	8,124	36	(292)
SHOULDER, PAVED (116-642) ADD	SM	62,553	153	(9,571)
SHOULDER, PAVED (116-642) ALTER	SM	66,936	62	(4,150)
AIRFIELD LIGHTING VAULT (136-668)	EA	1		(1,357)
SUPPORTING FACILITIES				154,201
SITE IMPROVEMENTS	LS			(115,511)
FENCING	LS			(949)
UTILITIES	LS			(11,492)
PAVEMENTS - ROAD	LS			(3,256)
AIRFIELD LIGHTING AND SIGNAGE	LS			(12,347)
GENERATORS	KW	540	548	(296)
INSTRUMENT LANDING SYSTEM INFRASTRUCTURE	LS			(1,095)
ENVIRONMENTAL REMEDIATION	LS			(9,255)
SUBTOTAL				224,841
CONTINGENCY (5.0%)				11,242
TOTAL CONTRACT COST				236,083
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				15,345
TOTAL REQUEST				251,428
TOTAL REQUEST (ROUNDED)				251,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,255)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Extend existing Runway 16/34 and add supporting taxiways, as well as provide shoulders, grading, drainage, arm/disarm pad, lighting vault, airfield lighting, and instrument landing system. Runway alteration includes repair of existing runway surface. Site				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AIR FORCE BASE SITE #1 ALASKA			4. PROJECT TITLE EXTEND RUNWAY 16/34, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 111-111	7. PROJECT NUMBER FXSB143004	8. PROJECT COST (\$000) AUTH: 0 APPR: 100,000	
<p>improvements include extensive excavation, hauling, and dumping due to site topography. A portion of the existing runway shall be regraded to raise the centerline profile to reduce earthwork for the runway extension. Site improvements also include removal/re-installation of airfield perimeter fencing and relocation and upgrade of aircraft arresting system. Utility work includes reconfiguring water, electrical, gas, storm water, and communication infrastructure. Road pavement work includes rerouting Airlifter Drive with a new connection to an existing road. Install new airfield lighting vault, airfield lighting, and signs; and upgrade existing lights/signs pursuant to Unified Facilities Criteria 3-535-01 in order for Runway 16 to support precision instrument approach. Lighting and sign upgrade applies to entire length of Runway 16/34, as well as to new taxiways that connect to runway extension. New airfield lighting includes runway centerline lights; touch down zone lights for Runway 16 approach; and visible and infrared assault landing zone lights. Relocate threshold of Runway 34 to allow installation of localizer for instrument landing system. Install generators to provide backup power for airfield lighting and instrument landing system as authorized by Air Force Instruction 32-1062. Environmental remediation includes wetland mitigation of the area in the vicinity of Fish and Triangle Lakes. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project will comply with Department of Defense anti-terrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 0 Tons</p>				
<p>11. Requirement: 326,902 SM Adequate: 187,546 SM Substandard: 98,875 SM PROJECT: Extend Runway 16/34</p> <p>REQUIREMENT: This project will extend Runway 16/34 to support an increase in safety and operational capabilities and accommodate the Federal Aviation Agency's increased opposite direction operations restrictions at Joint Base Elmendorf-Richardson. The project will require significant earth movement to extend the runway and comply with Unified Facilities Code 3-260-01 criteria. The runway extension requires the construction of supporting taxiways, shoulders, overrun, and an arm/disarm pad. In addition, the</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AIR FORCE BASE SITE #1 ALASKA			4. PROJECT TITLE EXTEND RUNWAY 16/34, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 111-111	7. PROJECT NUMBER FXSB143004	8. PROJECT COST (\$000) AUTH: 0 APPR: 100,000	
<p>extension involves rerouting Airlifter Drive to the north and updating additional airfield lighting per Unified Facility Code 3-353-01. The proposed action is necessary because there are current safety, operational, and training shortfalls with the existing runways at Joint Base Elmendorf-Richardson.</p> <p>CURRENT SITUATION: Elmendorf Airfield supports permanently assigned F-22, E-3, C-17, and C-12 aircraft, as well as transient C-5, KC-10, and KC-135 aircraft. The north-south runway (Runway 16/34) is 7,500 feet long by 150 feet wide. Due to its short length, large aircraft operating from this runway have a weight restriction that severely limits their ability to carry cargo and fuel. This results in an over-reliance on Runway 06. Therefore, when Runway 06 is closed or unusable for any reason (construction, emergency during takeoff or landing, winds out of limits, etc.), large aircraft operations experience severe mission degradation. On average, Runway 06 is closed one month during the summer for necessary annual repairs due to operating in an arctic location. The current situation imposes serious safety concerns for missions at Joint Base Elmendorf-Richardson. The 2008 Alaska National Airspace System Review identified only one safety concern: conflicts between Elmendorf Runway 06 arrivals and civilian aircraft operating through Ted Stevens Anchorage International Airport. The 2008 Review recommended Elmendorf use Runway 16 as their primary runway; however, this is not possible due to its short length. There have also been a number of near midair collisions, specifically with general aviation traffic from Merrill Field that operates above and below the approach corridor to Runway 06. Without meticulous pre-flight planning, a catastrophic collision could happen. Since January 2016, Air Force pilots have filed 23 Hazardous Air Traffic Reports with the Air Force Safety Center, most of which resulted from getting too close to general aviation traffic while flying approaches to Runway 06. This poses a substantial risk of fatality to military flight crews, civilian pilots, and passengers, in addition to the operational and financial loss from aircraft destruction.</p> <p>IMPACT IF NOT PROVIDED: Without this runway extension, the missions at Joint Base Elmendorf-Richardson will be operating in unsafe conditions, as documented in the 2008 Alaska National Airspace System Review and the 23 Hazardous Air Traffic Reports, which could result in serious crash consequences including human casualties and loss of mission critical aircraft. In addition, whenever Runway 06 is closed, large aircraft operations are severely restricted by the shorter secondary runway limiting Joint Base Elmendorf-Richardson's capacity to project power into the Indo-Pacific Command Area of Responsibility (INDOPACOM AOR). If Runway 06 was to be shut down for any reason during an INDOPACOM AOR contingency, Joint Base</p>				



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AIR FORCE BASE SITE #1 ALASKA			4. PROJECT TITLE EXTEND RUNWAY 16/34, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 111-111	7. PROJECT NUMBER FXSB143004	8. PROJECT COST (\$000) AUTH: 0 APPR: 100,000	
<p>Elmendorf-Richardson would not be a reliable logistics gateway to the Pacific. Canceled missions, safety problems, and loss of training will result in operational failure.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084 Facility Requirements and Unified Facilities Criteria 3-260-01 Airfield and Heliport Planning and Design. This project does not fall within or partly within the 100-year flood plain. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. An approved Economic Analysis determined new construction as the only viable option to meet this requirement. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard design from Air Force Civil Engineer Center or the United States Army Corps of Engineers. Costs for Supporting Facilities in Block 9 exceed Primary Facilities by more than 25% due to higher terrain elevation at the north end of Runway 16/34; consequently, this site condition necessitates extensive earthwork. Expansion of the runway to the south is not feasible due to existing off-base residential developments, an existing railroad, and protected natural resources. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>673d Air Base Wing Civil Engineer: (907) 552-3007.</p> <p>RUNWAY (111-111) Add: 40,481 SM = 435,734 Square Feet;  TAXIWAY (112-211) Add: 54,219 SM = 583,608 Square Feet;  RUNWAY (111-111) Alter: 98,875 SM = 1,064,282 Square Feet;  TAXIWAY (112-211) Alter: 18,471 SM = 198,820 Square Feet;  ARMING AND DISARMING PADS (116-661): 10,904 SM = 117,370 Square Feet;  OVERRUN, PAVED (111-115) Add: 13,936 SM = 150,006 Square Feet;  OVERRUN, PAVED (111-115) Alter: 8,124 SM = 87,446 Square Feet;  SHOULDER, PAVED (116-642) Add: 62,553 SM = 673,315 Square Feet;</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AIR FORCE BASE SITE #1 ALASKA		4. PROJECT TITLE EXTEND RUNWAY 16/34, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 111-111	7. PROJECT NUMBER FXSB143004	8. PROJECT COST (\$000) AUTH: 0 APPR: 100,000
<p>SHOULDER, PAVED (116-642) Alter: 66,936 SM = 720,493 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AIR FORCE BASE SITE #1 ALASKA		4. PROJECT TITLE EXTEND RUNWAY 16/34, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 111-111	7. PROJECT NUMBER FXSB143004	8. PROJECT COST (\$000) AUTH: 0 APPR: 100,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	10-JUN-19		
(c) Parametric Cost Estimates Used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2022	100%		
(e) Date 35% Designed	30-MAR-20		
(f) Date Design Complete	29-JUL-21		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive 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	14,880		
(b) All Other Design Costs	2,310		
(c) Total	17,190		
(d) Contract	11,190		
(e) In-house	6,000		
(4) Construction Contract Award	22-MAY		
(5) Construction Start	22-JUN		
(6) Construction Completion	26-JAN		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
INSTRUMENT LANDING SYSTEM	3080	2022	1,255

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022																				
3. INSTALLATION, SITE AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AIR FORCE BASE SITE #1 ALASKA		4. PROJECT TITLE EXTEND RUNWAY 16/34, INC 2																					
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 111-111	7. PROJECT NUMBER FXSB143004	8. PROJECT COST (\$000) AUTH: 0 APPR: 100,000																				
<p>c. Title, Authorization, and Appropriation Summary:</p> <p>FY 2022 Title is "EXTEND RUNWAY 16/34, INC. 1"</p> <p>FY 2023 Proposed Title Change is "EXTEND RUNWAY 16/34, INC 2"</p> <table border="1"> <thead> <tr> <th></th> <th>Authorization (\$000)</th> <th>Auth of Approp (\$000)</th> <th>Approp (\$000)</th> </tr> </thead> <tbody> <tr> <td>FY2022 Enacted</td> <td>251,000</td> <td>79,000</td> <td>79,000</td> </tr> <tr> <td>FY2023 Budget Request</td> <td>-----</td> <td>100,000</td> <td>100,000</td> </tr> <tr> <td>Future Request</td> <td>-----</td> <td>72,000</td> <td>72,000</td> </tr> <tr> <td><b>Total</b></td> <td><b>251,000</b></td> <td></td> <td><b>251,000</b></td> </tr> </tbody> </table>					Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)	FY2022 Enacted	251,000	79,000	79,000	FY2023 Budget Request	-----	100,000	100,000	Future Request	-----	72,000	72,000	<b>Total</b>	<b>251,000</b>		<b>251,000</b>
	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)																				
FY2022 Enacted	251,000	79,000	79,000																				
FY2023 Budget Request	-----	100,000	100,000																				
Future Request	-----	72,000	72,000																				
<b>Total</b>	<b>251,000</b>		<b>251,000</b>																				

**Project: PDI: Extend Runway 16/34, Inc 2, JB Elmendorf-Richardson, Alaska**

**Project Spending Plan**

As of: 6-Mar-22

All Cost in thousands (\$000)

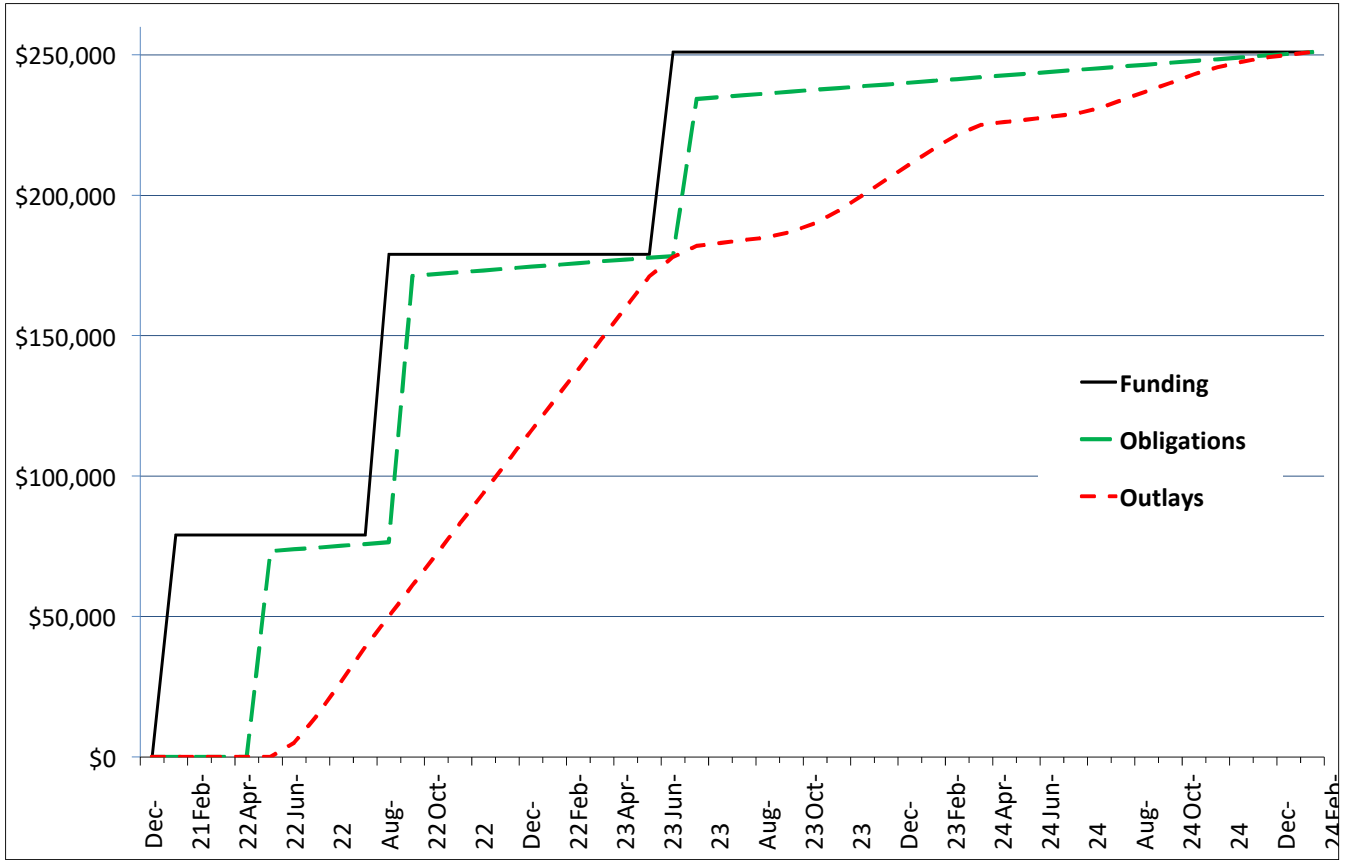
Chart Begin Dec-21	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Dec-21	-	-	-	-	-	-
Jan-22	79,000	79,000	-	-	-	-
Feb-22	-	79,000	-	-	-	-
Mar-22	-	79,000	-	-	-	-
Apr-22	-	79,000	-	-	-	-
May-22	-	79,000	73,222	73,222	-	-
Jun-22	-	79,000	642	73,864	5,000	5,000
Jul-22	-	79,000	642	74,506	10,000	15,000
Aug-22	-	79,000	642	75,148	12,000	27,000
Sep-22	-	79,000	642	75,790	12,000	39,000
Oct-22	100,000	179,000	642	76,432	11,000	50,000
Nov-22	-	179,000	94,864	171,296	11,000	61,000
Dec-22	-	179,000	642	171,938	11,000	72,000
Jan-23	-	179,000	642	172,580	11,000	83,000
Feb-23	-	179,000	642	173,222	11,000	94,000
Mar-23	-	179,000	642	173,864	11,000	105,000
Apr-23	-	179,000	642	174,506	11,000	116,000
May-23	-	179,000	642	175,148	11,000	127,000
Jun-23	-	179,000	642	175,790	11,000	138,000
Jul-23	-	179,000	642	176,432	11,000	149,000
Aug-23	-	179,000	642	177,074	11,000	160,000
Sep-23	-	179,000	642	177,716	11,000	171,000
Oct-23	72,000	251,000	642	178,358	7,000	178,000
Nov-23	-	251,000	55,950	234,308	4,000	182,000
Dec-23	-	251,000	642	234,950	1,000	183,000
Jan-24	-	251,000	642	235,592	1,000	184,000
Feb-24	-	251,000	642	236,234	1,000	185,000
Mar-24	-	251,000	642	236,876	2,000	187,000
Apr-24	-	251,000	642	237,518	3,000	190,000
May-24	-	251,000	642	238,160	4,500	194,500
Jun-24	-	251,000	642	238,802	5,500	200,000
Jul-24	-	251,000	642	239,444	5,500	205,500
Aug-24	-	251,000	642	240,086	5,500	211,000
Sep-24	-	251,000	642	240,728	5,500	216,500
Oct-24	-	251,000	642	241,370	5,000	221,500
Nov-24	-	251,000	642	242,012	3,500	225,000
Dec-24	-	251,000	642	242,654	1,000	226,000
Jan-25	-	251,000	642	243,296	1,000	227,000
Feb-25	-	251,000	642	243,938	1,000	228,000
Mar-25	-	251,000	642	244,580	1,000	229,000
Apr-25	-	251,000	642	245,222	2,000	231,000
May-25	-	251,000	642	245,864	3,000	234,000
Jun-25	-	251,000	642	246,506	3,000	237,000
Jul-25	-	251,000	642	247,148	3,000	240,000
Aug-25	-	251,000	642	247,790	3,000	243,000
Sep-25	-	251,000	642	248,432	2,500	245,500
Oct-25	-	251,000	642	249,074	2,000	247,500
Nov-25	-	251,000	642	249,716	1,500	249,000
Dec-25	-	251,000	642	250,358	1,000	250,000
Jan-26	-	251,000	642	251,000	1,000	251,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2022.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in May 2022 and contract completion Jan 2026; duration 44 months. Outlay rate reflects rapid purchase of materials upon award and extensive earthwork during the first winter, followed by seasonally appropriate work through construction completion.

**PDI: Extend Runway 16/34, Inc 2, JB Elmendorf-Richardson, Alaska**



<b>1. COMPONENT</b> AIR FORCE		<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE (YYYYMMDD)</b> 20220308			
<b>3. INSTALLATION AND LOCATION</b> VANDENBERG SPACE FORCE BASE, CALIFORNIA						<b>4. COMMAND</b> UNITED STATES SPACE FORCE			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.12		
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
		<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF	30-SEP-21	212	1,155	924	200	75	0	653	1,864	1,413	6,496
b. END FY		195	1,155	920	200	75	0	625	1,851	1,420	6,441
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE										119,442	
b. INVENTORY TOTAL AS OF 30-SEP-21										4,969,750.00	
c. AUTHORIZATION NOT YET IN INVENTORY										67,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										89,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										150,000.00	
h. GRAND TOTAL										5,275,750.00	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>											
<b>a. CATEGORY</b>						<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>			
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>			<b>(3) SCOPE</b>				<b>(1) START</b>		<b>(2) COMPLETE</b>	
212-216	GBSD CONSOLIDATED MAINTENANCE FACILITY			11,559 SM		89,000		02/21		01/22	
<b>9. FUTURE PROJECTS</b>											
<b>10. MISSION OR MAJOR FUNCTIONS</b> Vandenberg Space Force Base's host unit, the 30th Space Wing, supports West Coast launch activities for the Air Force, Department of Defense, National Aeronautics and Space Administration, national programs and various private industry contractors. The Wing supports the processing and launch of a variety of expendable vehicles including Atlas V, Delta IV, Delta II, Pegasus, Minotaur, Taurus and Falcon. The Wing also supports Force Development and Evaluation of all intercontinental ballistic missiles, as well as Missile Defense Agency (MDA) test and operations.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b> N/A											

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. Date APRIL 2022	
2. INSTALLATION AND LOCATION VANDENBERG SPACE FORCE BASE CALIFORNIA		4. PROJECT TITLE GBSD CONSOLIDATED MAINTENANCE FACILITY			
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 212-216	7. PROJECT NUMBER XUMU193002	8. PROJECT COST (\$000) 89,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITY					69,452
SHOP, MISSILE SERVICE (212-216)		SM	11,559	4,765	(54,790)
WAREHOUSE SUPPLY AND EQUIPMENT BASE (442-758)		SM	2,230	3,190	(7,103)
ICD 705 PREMIUM		LS			(5,866)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(1,694)
SUPPORTING FACILITIES					8,368
UTILITIES		LS			(1,637)
PAVEMENTS		LS			(3,819)
SITE IMPROVEMENTS		LS			(2,703)
COMMUNICATIONS		LS			(209)
SUBTOTAL					77,820
CONTINGENCY (5%)					3,891
TOTAL CONTRACT COST					81,711
SIOH (5.7%)					4,658
DESIGN/BUILD - DESIGN COST (4%)					3,113
TOTAL REQUEST					89,482
TOTAL REQUEST (ROUNDED)					89,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(16,027)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a multi-story Consolidated Maintenance Facility for the Ground Based Strategic Deterrent at Vandenberg Air Force Base to support Ground Based Strategic Deterrent Test, Launch Operations, and accommodate a crew of 250 personnel. The primary facility will be used to house the Flight Test Squadron for Ground Based Strategic Deterrent Intercontinental Ballistic Missiles. Project will include Advance Program Office/Security Program Office area that shall meet special access program facility requirements and be large enough to support security personnel & Cyber Information Technology personnel. Advance Program Office/Security Program Office shall consist of offices, one large conference room and two smaller conference rooms. In addition to the offices, laboratories, storage areas, and vehicle storage structures, the project will consist of secure/non-secure internet protocol router					



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. Date APRIL 2022
2. INSTALLATION AND LOCATION VANDENBERG SPACE FORCE BASE CALIFORNIA		4. PROJECT TITLE: GBSD CONSOLIDATED MAINTENANCE FACILITY	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 212-216	7. PROJECT NUMBER XUMU193002	8. PROJECT COST (\$000) 89,000
<p>communication systems, electrical/mechanical services, and distribution components/systems, water and sewer, fire protection, lightning protection, security systems, and overhead cranes in the high bays to lift critical hardware and support equipment in and out of Transporter Erectors, Maintenance Vans and other support vehicles. As the facility will be located adjacent to the missile route, all Intercontinental Ballistic Missiles vehicles will be maintained, and stored within this complex. The facility will have secure storage rooms, labs and a codes vault that will be built to Intelligence Community Directive 705 standards. The class "B" codes vault contains a Class "A" vault. Site improvements include clearing, grubbing, grading, demolition, as applicable, paving, walkways, and storm drainage. The Facility will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01.</p> <p>Air Conditioning Load: 350 Tons</p>			
<p>11. REQUIREMENT: 11,559 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM</p> <p>PROJECT: Ground Based Strategic Deterrent Consolidated Maintenance Facility</p> <p>REQUIREMENT: A Ground Based Strategic Deterrent Consolidated Maintenance Facility is required to support the Ground Based Strategic Deterrent testing activities, starting in Fiscal Year 2023, without interruptions to the Minuteman III test launch schedule, which continues through Fiscal Year 2030. The facility consolidates test, operational and maintenance activities required to perform with the new Ground Based Strategic Deterrent Intercontinental Ballistic Missiles. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: Minuteman III occupies two facilities to support test and maintenance of the Intercontinental Ballistic Missiles. The 12,693 SM (136,637 SF) in the combined square footage of Building 6601 at 8,181SM (88,064 SF) and Building 8314 at 4,512SM (48,573 SF) is 100% allocated to the Minuteman III mission and has no capacity to support the Ground Based Strategic Deterrent program which is at a different level of classification. New test, support equipment, training and processes will be used in Ground Based Strategic Deterrent.</p> <p>IMPACT IF NOT PROVIDED: The Ground Based Strategic Deterrent program is scheduled to start Pathfinder Testing in Fiscal Year 2023, prior to Developmental Testing in Fiscal Year 2024, and Operational Testing in Fiscal</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. Date APRIL 2022
2. INSTALLATION AND LOCATION VANDENBERG SPACE FORCE BASE CALIFORNIA		4. PROJECT TITLE: GBSD CONSOLIDATED MAINTENANCE FACILITY	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 212-216	7. PROJECT NUMBER XUMU193002	8. PROJECT COST (\$000) 89,000
<p>Year 2026, to meet the deployment schedule in Fiscal Year 2028. Without this project, mission will fail to meet established test and development milestones established by the program office. If facility is not provided on time, then Developmental Testing/Operational Testing will be delayed, and initial operational capability will not be met.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements for the less predominant space with category codes 442-758 Warehouse Supply and Equipment Base, and 214-469 Transporter/Erector Test Facility. The Air Force Manual 32-1084, Facility Requirements does not provide sufficient design requirements for the predominant category code 212-216. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facility Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project (category code 212-216) and there is no applicable standard design from Air Force Civil Engineer Center. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. An analysis of reasonable options for accomplishing this project indicated there is only one option that will meet operational requirements; new construction. A site survey was conducted in 2019. This project does not fall within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>SLD 30 Base Civil Engineer: 805-606-6855</p> <p>Shop, Missile Service: 11,559 SM = 124,420 Square Feet;</p> <p>Warehouse Supply and Equipment Base: 2,230 SM = 24,000 Square Feet.</p> <p>JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other organizations.</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. Date APRIL 2022
2. INSTALLATION AND LOCATION VANDENBERG SPACE FORCE BASE CALIFORNIA		4. PROJECT TITLE: GBSD CONSOLIDATED MAINTENANCE FACILITY	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 212-216	7. PROJECT NUMBER XUMU193002	8. PROJECT COST (\$000) 89,000
12. Supplemental Data:			
a. Estimated Design Data:			
(1) Status			
(a) Type of Design			DESIGN-BUILD
(b) Date Design Started			05-FEB-21
(c) Parametric Cost Estimated Used to Develop Cost			YES
(d) Percent Complete as of January 2022			100%
(e) Date Design 35% Complete			14-JUN-21
(f) Date Design 100% Complete			27-JAN-22
(g) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design			NO
(b) Where Design Was Most Recently Used			N/A
(3) Total Cost (\$000)			
(a) Production of Plans and Specifications			2,227
(b) All Other Design Costs			2,670
(c) Total			4,897
(d) Contract			3,562
(e) In-House			1,335
(4) Construction Contract Award			23-APR
(5) Construction Start			23-MAY
(6) Construction Completion			26-JAN
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED OR	COST
EQUIPMENT NOMENCLATURE	PROCURING	REQUESTED	(\$000)
Communications & IT Equipment	APPRO 3080	2025	2,872
Furniture, Fixtures, & Equipment	3080	2025	1,155
Weapon System Equipment	3600	2024	12,000

<b>1. COMPONENT</b> AIR FORCE			<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE (YYYYMMDD)</b> 20220308		
<b>3. INSTALLATION AND LOCATION</b> BARKSDALE AIR FORCE BASE, LOUISIANA						<b>4. COMMAND</b> AIR FORCE GLOBAL STRIKE COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 0.84		
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
		<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF 30-SEP-21		1,097	6,745	1,324	49	6	1	3	6	9	9,240
b. END FY		1,097	6,745	1,324	49	6	1	3	6	9	9,240
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE										60,638	
b. INVENTORY TOTAL AS OF 30-SEP-21										1,992,003.00	
c. AUTHORIZATION NOT YET IN INVENTORY										341,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										0.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										19,225.00	
g. REMAINING DEFICIENCY										127,300.00	
h. GRAND TOTAL										2,479,528.00	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>											
<b>a. CATEGORY</b>				<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>					
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>			<b>(3) SCOPE</b>				<b>(1) START</b>	<b>(2) COMPLETE</b>		
215-582	WEAPONS GENERATION FACILITY, INC 2			8,884 SM		125,000		03/17	05/20		
<b>9. FUTURE PROJECTS</b>											
215-582 Weapons Generation Facility, Inc 3 (8,884 SM / \$107,000)											
422-264 Hypersonic Igloo MSA (395 SM / \$19,255)											
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
Barksdale Air Force Base is home to the 2d Bomb Wing. The 2nd Bomb Wing conducts the primary mission with three squadrons of B-52H Stratofortress bombers - the 11th Bomb Squadron, which is the training squadron, the 20th Bomb Squadron and the 96th Bomb Squadron. Together they ensure the 2nd Bomb Wing provides flexible, responsive, global combat capability, autonomously or in concert with other forces, and trains all Air Force Global Strike Command and Air Force Reserve B-52 crews. The 2nd Bomb Wing provides our nation with strategic deterrence capabilities and devastating global combat air power, anytime, anywhere.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>											
N/A											

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION BARKSDALE AFB BARKSDALE AIR FORCE BASE SITE 1 LOUISIANA			4. PROJECT TITLE WEAPONS GENERATION FACILITY, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER AWUB145001	8. PROJECT COST (\$000) AUTH: 0 APPR: 125,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				187,147
SHOP, SURVEILLANCE AND INSPECTION (215-582)	SM	8,884	15,830	(140,634)
RESERVE FIRE TEAM FACILITY (730-836)	SM	512	11,588	(5,933)
SECURITY POLICE ENTRY CONTR BUILDING (730-837)	SM	776	18,315	(14,212)
EMER ELECTRIC POWER GENERATION PLANT (811-147)	KW	2,000	1,405	(2,810)
WATER FIRE PUMPING STATION (843-316)	SM	283	25,423	(7,195)
MISCELLANEOUS PERSONNEL SHELTER (738-499)	SM	14	2,877	(40)
SECURITY DEFENSIVE FIGHTING POSITION (730-834)	SM	75	38,267	(2,870)
GANTRY/BRIDGE CRANE (890-154)	EA	3	72,800	(218)
FENCE INTERIOR (872-248)	LM	1,524	438	(668)
RENOVATE SHOP, MISSILE ASSEMBLY (212-212)	SM	6,474	1,236	(8,002)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(4,565)
SUPPORTING FACILITIES				58,376
SITE PREPARATION				(17,300)
SITE IMPROVEMENTS	LS			(1,483)
UTILITIES	LS			(13,500)
PAVEMENTS	LS			(6,464)
COMMUNICATIONS	LS			(2,970)
PASSIVE FORCE PROTECTION	LS			(8,561)
ENVIRONMENTAL MEASURES	LS			(3,184)
REMEDIATION UNEXPLODED	LS			(4,000)
ORDNANCE REMEDIATION	SM	1,711	534	(914)
DEMOLITION				245,523
SUBTOTAL				12,276
CONTINGENCY (5%)				257,799
TOTAL CONTRACT COST				14,695
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				272,494
TOTAL REQUEST				272,000
TOTAL REQUEST (ROUNDED)				(35,696)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION BARKSDALE AFB BARKSDALE AIR FORCE BASE SITE 1 LOUISIANA			4. PROJECT TITLE: WEAPONS GENERATION FACILITY, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER AWUB145001	8. PROJECT COST (\$000) AUTH: 0 APPR: 125,000	
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a Weapon Generation Facility that is a hardened facility, within a protective zone, with consolidated storage, maintenance, inspection, and administrative functions using best practices from similar Department of the Navy and Department of Energy facilities currently in use. All construction will meet requirements for essential facility system nuclear design certification. An overhead bridge crane is required for maintenance purposes in each of the three (3) Maintenance Bays. Generation staging area will be required for unloading transit vehicles. Project will include an independent fire suppression system, all utilities, pavements, communications, site improvements, security forces fire team facility, Remote Target Engagement System tower structure, Entry Control Point/Shelter, personnel shelter to protect from weather elements, and associated support facilities to provide a complete and useable facility. Project includes renovation of the Integrated Maintenance Facility, Building 7710 (6,474 Square Meters), because this facility already contains unique maintenance functions that this project will not duplicate, but is a requirement of the overall weapons generation functions. Project will include an emergency back-up generator, as authorized per Air Force Instruction 32-1062, and is included as part of the emergency electric power generation plant facility. Project will demolish Building 7318 (1,711 Square Meters). Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 100 Tons</p>				
<p>11. REQUIREMENT: 8,884 SM      ADEQUATE: 6,474 SM      SUBSTANDARD: 1,711 SM PROJECT: Construct Weapons Generation Facility</p> <p>REQUIREMENT: Project is required to construct a Weapons Generation Facility to reconstitute nuclear capability at Barksdale Air Force Base, Louisiana. A reinforced concrete facility that places all nuclear maintenance and storage operations in a single facility is required to eliminate security deviations. Weapons Generation Facilities are single hardened facilities within a protective zone, with consolidated storage, maintenance, inspection, and administrative functions. Emergency generator is required for the critical operations in the facility and is included as part of the emergency electric power generation plant facility. Nuclear certified hoists and cranes are also required to perform asset handling and maintenance functions. Remediation of Unexploded Ordnance and wetlands are required as a critical task prior to</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION BARKSDALE AFB BARKSDALE AIR FORCE BASE SITE 1 LOUISIANA			4. PROJECT TITLE: WEAPONS GENERATION FACILITY, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER AWUB145001	8. PROJECT COST (\$000) AUTH: 0 APPR: 125,000	

initial site construction.

**CURRENT SITUATION:** The Barksdale Air Force Base Weapons Generation Facility initiative is an important element of a broader Weapons Generation Facility Investment Strategy that will recapitalize five Air Force Global Strike Command Weapons Storage Areas. Existing Weapons Storage Areas (and the Barksdale Munitions Storage Area) contain numerous function-specific deficiencies, inflexible design based on the prevailing nuclear weapons storage standards of the 1950s and 1960s. The current facilities do not meet the security requirements mandated in Department of Defense security directives. The aging infrastructure requires workarounds to meet mission requirements and the current facilities systems are inadequate to support ongoing weapons maintenance. The existing facilities have outlived their design life.

**IMPACT IF NOT PROVIDED:** The stand-up of a nuclear capable mission at Barksdale is a strategy-based decision. If this project is not funded, the storage and maintenance of weapons will not be feasible at Barksdale Air Force Base. Lack of adequate weapons storage and maintenance facilities at Barksdale Air Force Base will prevent diversification of the Air Force's nuclear mission, placing continued strain on the nuclear bomber force. All areas of the facility are required for it to operate as a nuclear certified facility. It is not possible to separate the facility into complete and useable phases.

**ADDITIONAL:** This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from NAVFAC. A waiver to an Economic Analysis has been approved for this project. Sustainable principles, to include life-cycle cost- effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1- 200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. Supporting Facilities total exceeds 25% of the Primary Facilities total due to extensive amount of earthwork associated with preparing the site.

Base Civil Engineer: (318) 456-4586.

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION BARKSDALE AFB BARKSDALE AIR FORCE BASE SITE 1 LOUISIANA			4. PROJECT TITLE: WEAPONS GENERATION FACILITY, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER AWUB145001	8. PROJECT COST (\$000) AUTH: 0 APPR: 125,000	
<p>Shop, Surveillance and Inspection: 8,884 SM = 95,627 Square Feet;  Reserve Fire Team Facility: 512 SM = 5,511 Square Feet;  Security Police Entry Control Building: 776 SM = 8,353 Square Feet;  Water Fire Pumping Station: 283 SM = 3,046 Square Feet;  Miscellaneous Personnel Shelter: 14 SM = 151 Square Feet;  Security Defensive Fighting Position: 75 SM = 807 Square Feet;  Fence Interior: 1,524 LM = 5,000 Linear Feet;  Renovate Shop, Missile Assembly: 6,474 SM = 69,686 Square Feet;  Demolition: 1,711 SM = 18,417 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION BARKSDALE AFB BARKSDALE AIR FORCE BASE SITE 1 LOUISIANA		4. PROJECT TITLE: WEAPONS GENERATION FACILITY, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER AWUB145001	8. PROJECT COST (\$000) AUTH: 0 APPR: 125,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design			Design-Bid-Build
(b) Date Design Started			20-MAR-17
(c) Parametric Cost Estimates used to develop costs			YES
(d) Percent Complete as of 01 JAN 2022			100%
(e) Date 35% Designed			30-OCT-18
(f) Date Design Complete			01-MAY-20
(g) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive 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			16,320
(b) All Other Design Costs			8,160
(c) Total			24,480
(d) Contract			20,400
(e) In-house			4,080
(4) Construction Contract Award			22-FEB
(5) Construction Start			23-MAR
(6) Construction Completion			26-FEB
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE FURNITURE, FIXTURES, & EQUIPMENT	PROCURING APPROPR	OR REQUESTED	(\$000)
	3080	2026	1,813
UNINTERRUPTED POWER SUPPLY HOISTING EQUIPMENT	3080	2026	2,577
SECURITY EQUIPMENT	3080	2025	30,000
AIR COMPRESSORS	3080	2026	1,014

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION BARKSDALE AFB BARKSDALE AIR FORCE BASE SITE 1 LOUISIANA		4. PROJECT TITLE: WEAPONS GENERATION FACILITY, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER AWUB145001	8. PROJECT COST (\$000) AUTH: 0 APPR: 125,000

c. Title, Authorization, and Appropriation Summary:

FY 2022 Title is "Weapons Generation Facility, Inc. 1"

FY 2023 Proposed Title Change is "Weapons Generation Facility, Inc 2"

	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY 2022 Enacted	272,000	40,000	40,000
FY 2023 Budget Request	-----	125,000	125,000
Future Request	-----	107,000	<u>107,000</u>
Total	272,000		272,000

**Project: Weapons Generation Facility, Inc 2, Barksdale AFB, LA**

All Cost in thousands

**Project Spending Plan**

As of: 8-Mar-22

All Cost in thousands

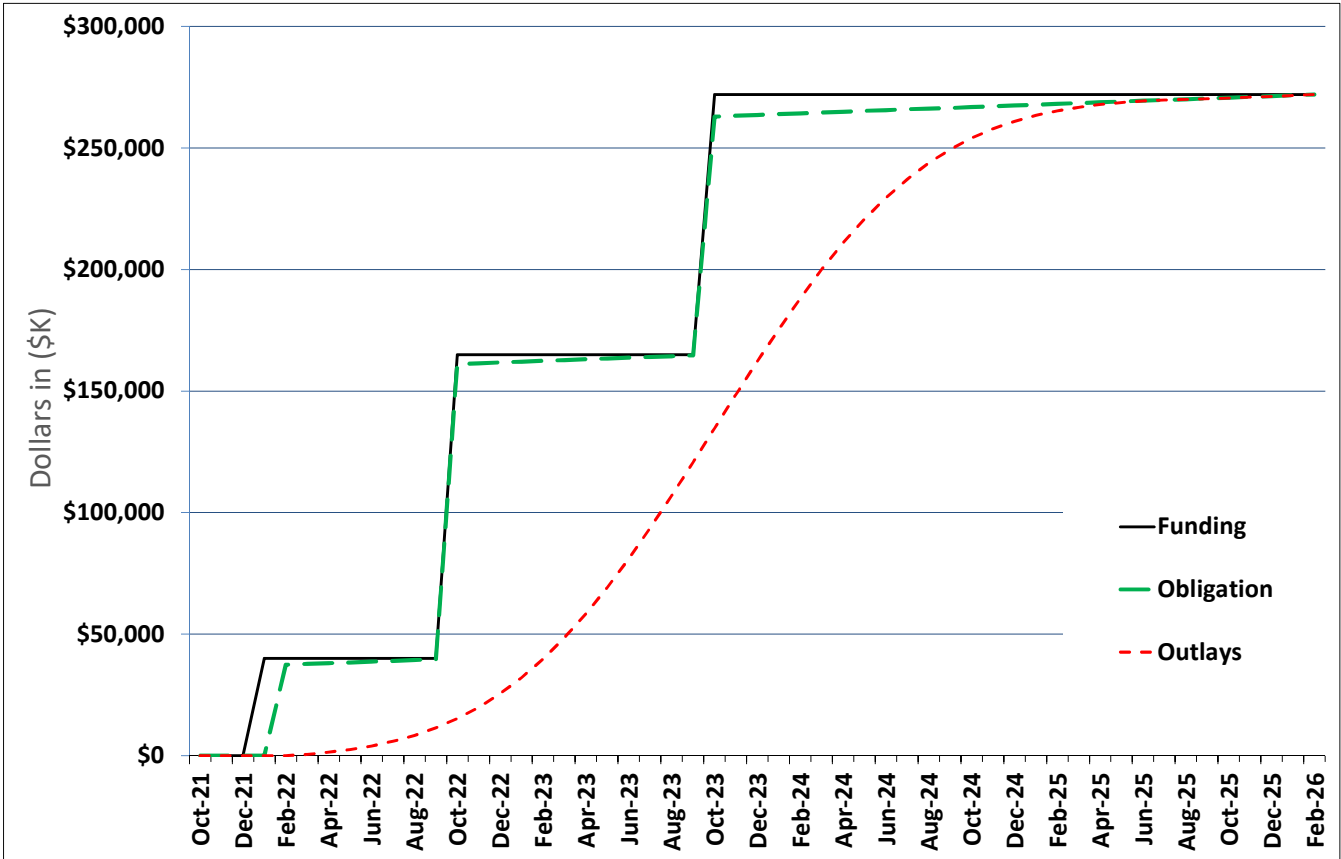
Chart Begin	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Oct-21	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-21	-	-	-	-	-	-
Nov-21	-	-	-	-	-	-
Dec-21	-	-	-	-	-	-
Jan-22	40,000	40,000	-	-	-	-
Feb-22	-	40,000	37,416	37,416	-	-
Mar-22	-	40,000	323	37,739	599	599
Apr-22	-	40,000	323	38,062	821	1,419
May-22	-	40,000	323	38,385	1,106	2,525
Jun-22	-	40,000	323	38,708	1,465	3,990
Jul-22	-	40,000	323	39,031	1,910	5,900
Aug-22	-	40,000	323	39,354	2,448	8,348
Sep-22	-	40,000	323	39,677	3,087	11,435
Oct-22	125,000	165,000	121,447	161,124	3,829	15,264
Nov-22	-	165,000	323	161,447	4,671	19,934
Dec-22	-	165,000	323	161,770	5,604	25,538
Jan-23	-	165,000	323	162,093	6,614	32,152
Feb-23	-	165,000	323	162,416	7,677	39,829
Mar-23	-	165,000	323	162,739	8,765	48,594
Apr-23	-	165,000	323	163,062	9,842	58,436
May-23	-	165,000	323	163,385	10,871	69,307
Jun-23	-	165,000	323	163,708	11,809	81,116
Jul-23	-	165,000	323	164,031	12,618	93,735
Aug-23	-	165,000	323	164,354	13,261	106,996
Sep-23	-	165,000	323	164,677	13,708	120,703
Oct-23	107,000	272,000	98,279	262,956	13,937	134,640
Nov-23	-	272,000	323	263,279	13,937	148,577
Dec-23	-	272,000	323	263,602	13,708	162,284
Jan-24	-	272,000	323	263,925	13,261	175,546
Feb-24	-	272,000	323	264,248	12,618	188,164
Mar-24	-	272,000	323	264,571	11,809	199,973
Apr-24	-	272,000	323	264,894	10,871	210,844
May-24	-	272,000	323	265,217	9,842	220,686
Jun-24	-	272,000	323	265,540	8,765	229,451
Jul-24	-	272,000	323	265,863	7,677	237,128
Aug-24	-	272,000	323	266,186	6,614	243,742
Sep-24	-	272,000	323	266,509	5,604	249,346
Oct-24	-	272,000	323	266,832	4,671	254,017
Nov-24	-	272,000	323	267,155	3,829	257,845
Dec-24	-	272,000	323	267,478	3,087	260,932
Jan-25	-	272,000	323	267,801	2,448	263,381
Feb-25	-	272,000	323	268,124	1,910	265,290
Mar-25	-	272,000	323	268,447	1,465	266,755
Apr-25	-	272,000	323	268,770	1,106	267,861
May-25	-	272,000	323	269,093	821	268,681
Jun-25	-	272,000	323	269,416	599	269,280
Jul-25	-	272,000	323	269,739	430	269,710
Aug-25	-	272,000	323	270,062	307	270,017
Sep-25	-	272,000	323	270,385	310	270,327
Oct-25	-	272,000	323	270,708	243	270,570
Nov-25	-	272,000	323	271,031	338	270,908
Dec-25	-	272,000	323	271,354	310	271,218
Jan-26	-	272,000	323	271,677	350	271,568
Feb-26	-	272,000	323	272,000	432	272,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2023.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in FEB 2022 and contract completion Feb 2026; duration 48 months.

# Weapons Generation Facility, Inc 2, Barksdale AFB, LA



<b>1. COMPONENT</b> AIR FORCE		<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20220308				
<b>3. INSTALLATION AND LOCATION</b> HANSCOM AIR FORCE BASE, MASSACHUSETTS				<b>4. COMMAND</b> AIR FORCE MATERIEL COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.22				
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
		<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF	30-SEP-21	455	264	1,698	0	0	0	48	92	480	3,037
b. END FY		462	270	1,680	0	0	0	48	95	485	3,040
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE										2,331	
b. INVENTORY TOTAL AS OF 30-SEP-21										1,618,197.00	
c. AUTHORIZATION NOT YET IN INVENTORY										322,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										530.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										29,316.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										220,000.00	
g. REMAINING DEFICIENCY										130,000.00	
h. GRAND TOTAL										2,419,513.00	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>											
<b>a. CATEGORY</b>				<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>					
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>		<b>(3) SCOPE</b>			<b>(1) START</b>	<b>(2) COMPLETE</b>				
317-315	MIT-Lincoln Lab (West Lab CSL/MIF) Inc		15,068 SM		30,200	10/17	03/19				
<b>9. FUTURE PROJECTS</b>											
317-315 MIT-Lincoln Lab (West Lab CSL/MIF) Inc (15,068 SM / \$69,800)											
740-884 Child Development Center (3,411 SM / \$29,316)											
317-315 MIT-LL/Engineering and Prototype Facility (TBD / \$220,000)											
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
AFLCMC provides the latest in command and control and information systems for various weapons platforms including the E-3 AWACS and E-8 Joint STARS; an Air Force Research Laboratory research site location for the space vehicles directorate; an air base group and a recruiting group.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>											
N/A											

1 COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE MIT-LINCOLN LAB (WEST LAB CSL/MIF), INC		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 317-315	7. PROJECT NUMBER MXRD153006	8. PROJECT COST (\$000) AUTH: 0 APPR: 30,200	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				170,330
SEMI-CONDUCTOR/MICROELECTRONICS LAB FAC	SM	15,068	10,918	(164,512)
PEDESTRIAN CONNECTOR	SM	150	16,520	(2,478)
SUSTAINABILITY & ENERGY MEASURES (2.0%)	LS			(3,340)
SUPPORTING FACILITIES				32,370
SITE PREPARATION	LS			(1,425)
SITE IMPROVEMENTS	LS			(3,692)
PAVEMENTS	LS			(1,722)
SITE UTILITIES	LS			(20,191)
CW PLANT ADDITION	SM	223	2,015	(449)
COMMUNICATIONS	LS			(827)
DEMOLITION B1138, B1139, B1140, B1141, B1142	SM	5,258	773	(4,064)
SUBTOTAL				202,700
CONTINGENCY (5.0%)				10,135
TOTAL CONTRACT COST				212,835
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				12,132
TOTAL REQUEST				224,967
TOTAL REQUEST (ROUNDED)				225,000
10. Description of Proposed Construction: Construct a multi-story building and pedestrian connector using concrete foundations, steel or reinforced concrete superstructure, masonry walls, and energy efficient roofing to accommodate the mission of the facility. Site Utilities includes an addition to the existing chilled water production facility (B1301) to house additional equipment required to meet chilled water demands. The project will demolish buildings B1138 (1,949 SM), B1139 (15 SM), B1140 (1,174 SM), B1141 (1,122 SM), and B1142 (998 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with Department of Defense (DoD) Minimum Antiterrorism Standards for Buildings requirements per UFC 4-010-01.  Air Conditioning: 1,730 Tons				
11. Requirement: 105,644 SM Adequate: 59,802 SM Substandard: 30,825 SM				

1 COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE MIT-LINCOLN LAB (WEST LAB CSL/MIF), INC	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 317-315	7. PROJECT NUMBER MXRD153006	8. PROJECT COST (\$000) AUTH: 0 APPR: 30,200
<p>PROJECT: MIT Semi-Conductor/ Microelectronics Lab Facility</p> <p>REQUIREMENT: A multi-story facility is required to provide space for the Advanced Microelectronics Integration Program for the Massachusetts Institute of Technology Lincoln Laboratory (MIT LL). Starting in the 1950's, MIT LL has been one of the premier Federally Funded Research and Development Centers (FFRDC) for the Department of Defense. MIT LL is the largest DoD R&amp;D FFRDC supporting numerous federal agencies and conducting research on over 400 programs. MIT LL takes projects from the initial concept stage, through simulation and analysis, to design and prototyping, and finally to field demonstration. The ability to provide development, prototyping, and field demonstrations sets MIT LL apart from other FFRDCs.</p> <p>CURRENT SITUATION: The existing buildings are functionally obsolete for the type of research and fabrication required and do not meet current building codes or industry standards for high technology facilities. Much of MIT LL's work involves complex and hazardous processes that utilize quantities of chemicals in excess of allowable limits identified in current building codes. An independent facility assessment completed by a consultant to MIT LL in 2008 and validated by the DoD Joint Advisory Council in 2011 concluded that current and future MIT LL research programs will require a new facility built for modern research. These same buildings also contain hundreds of research staff offices and do not have continuous fire rated corridors for the appropriate movement of hazardous chemicals to and from the semiconductor growth and fabrication facilities. This situation necessitates that hazardous chemicals and gases used in these facilities be restocked in the overnight hours utilizing special transport vessels to minimize risk of personnel exposure. In addition, current codes also require hazardous materials handling laboratories, like these, to be located at ground level to allow easier emergency response in the event of a toxic gas or chemical release event. These existing laboratories are on the 4th floor.</p> <p>IMPACT IF NOT PROVIDED: Space constraints and other facility deficiencies will continue to hamper the MIT LL mission and create unnecessary risk to high dollar DoD research. Currently, many critical programs are scattered across multiple floors of five different 1950's and 60's-era buildings. In addition to the safety and code issues associated with handling and moving hazardous materials, this project will consolidate the distributed compound semiconductor and advanced packaging laboratories into a single purpose-built facility designed to safely handle and support complex electronic research and development functions. Without this new facility, MIT LL's ability to continue its important work will be impaired and increasingly degraded. As a result, work to provide next generation laser radar and sensing systems, low</p>			

1 COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE MIT-LINCOLN LAB (WEST LAB CSL/MIF), INC	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 317-315	7. PROJECT NUMBER MXRD153006	8. PROJECT COST (\$000) AUTH: 0 APPR: 30,200
<p>size weight and power (low-SWAP) application- specific microsystems, integrated sensor packages for unmanned air vehicles (UAVs) and unattended ground sensors (UGSs), and concealable ultra-low- power electronics will be delayed.</p> <p>ADDITIONAL: The criteria/scope for this program is not specified in Air Force Handbook (AFH) 32-1084, "Facility Requirements". AFH 32-1084 does not contain sizing criteria for Research, Development, Test, &amp; Evaluation (RDT&amp;E) facilities. This facility was sized based on an in-depth analysis of the user's mission and requirements performed by HDR in February 2013. This design shall conform to criteria established in the Air Force Corporate Facility Standards (AFCFS) and the Installation Facility Standards (IFS), but will not employ a standard design because there is no AF standard facility design to accommodate the facility's mission. A waiver to economic analysis has been approved. This project does not fall within or partly within the 100-year flood plain.</p> <p>Base Civil Engineer: 781-225-2999</p> <p>MIT Semi-Conductor / Microelectronics Lab Facility: 15,017 SM = 161,638 SF</p> <p>JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.</p>			



1 COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE MIT-LINCOLN LAB (WEST LAB CSL/MIF), INC	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 317-315	7. PROJECT NUMBER MXRD153006	8. PROJECT COST (\$000) AUTH: 0 APPR: 30,200
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design			
(b) Date Design Started			23-OCT-17
(c) Parametric Cost Estimates used to develop costs			YES
(d) Percent Complete as of 01 JAN 2021			100 %
(e) Date 35% Designed			07-MAR-18
(f) Date Design Complete			03-MAR-19
(g) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			13,500
(b) All Other Design Costs			6,750
(c) Total			20,250
(d) Contract			16,875
(e) In-house			3,375
(4) Construction Contract Award			19-AUG
(5) Construction Start			19-SEP
(6) Construction Completion			24-DEC
b. Equipment associated with this project provided from other appropriations:			
N/A			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE MIT-LINCOLN LAB (WEST LAB CSL/MIF), INC	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 317-315	7. PROJECT NUMBER MXRD153006	8. PROJECT COST (\$000) AUTH: 0 APPR: 30,200

c. Title, Authorization, and Appropriation Summary:

FY 2019 Title is "MIT-Lincoln Laboratory (West Lab CSL/MIF)"

FY 2023 Proposed Title Change is "MIT-Lincoln Lab (West Lab CSL/MIF), INC"

	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY 2019 Enacted	225,000	90,000	90,000
FY 2020 Enacted	-----	135,000	135,000
Cost Variation Aug 2021	100,000		
FY 2023 Budget Request	-----	30,200	30,200
Future Request	-----	69,800	69,800
Total	325,000		325,000

**Project: MIT-Lincoln Lab (West Lab CSL/MIF), Inc, Hanscom AFB, MA**

**Project Spending Plan**

As of: 8-Mar-22

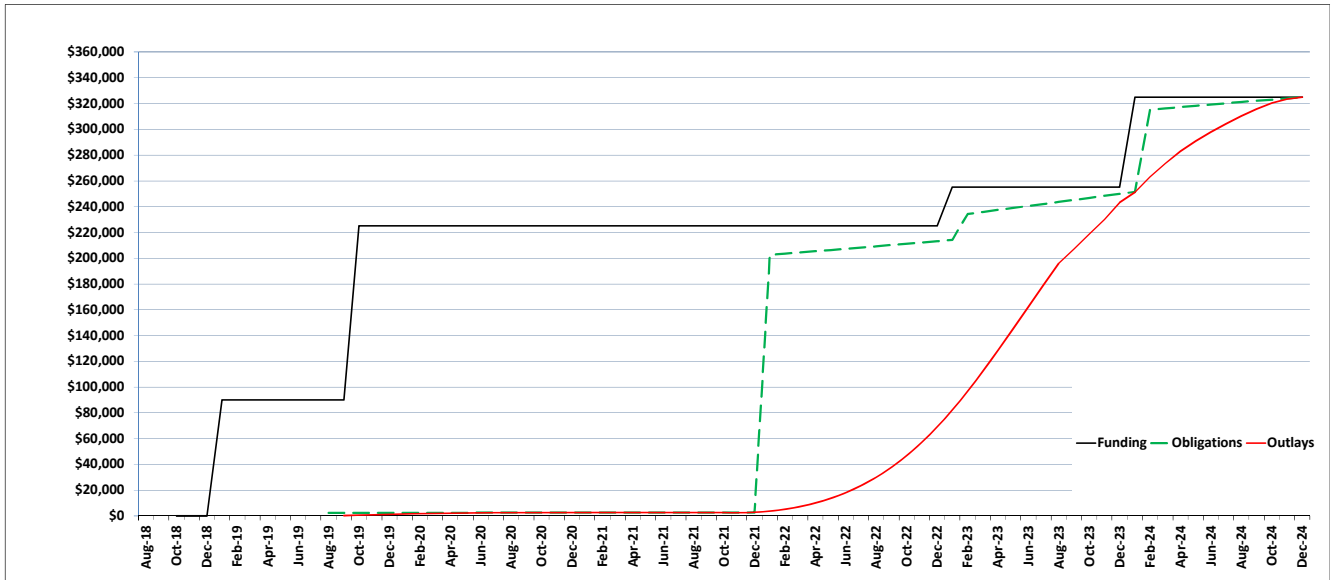
All Cost in thousands (\$000)

Chart Begin	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Month	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Sep-19						
Aug-18						
Sep-18						
Oct-18	-	-				
Nov-18	-	-				
Dec-18	-	-				
Jan-19	90,000	90,000				
Feb-19	-	90,000				
Mar-19	-	90,000				
Apr-19	-	90,000				
May-19	-	90,000				
Jun-19	-	90,000				
Jul-19	-	90,000				
Aug-19	-	90,000	2,347	2,347		
Sep-19	-	90,000	13	2,360	248	248
Oct-19	135,000	225,000	13	2,374	248	496
Nov-19	-	225,000	13	2,387	248	744
Dec-19	-	225,000	13	2,401	248	992
Jan-20	-	225,000	13	2,414	248	1,240
Feb-20	-	225,000	13	2,427	248	1,488
Mar-20	-	225,000	13	2,441	248	1,737
Apr-20	-	225,000	13	2,454	248	1,985
May-20	-	225,000	13	2,467	248	2,233
Jun-20	-	225,000	13	2,481	248	2,481
Jul-20	-	225,000	-	2,481	-	2,481
Aug-20	-	225,000	-	2,481	-	2,481
Sep-20	-	225,000	-	2,481	-	2,481
Oct-20	-	225,000	-	2,481	-	2,481
Nov-20	-	225,000	-	2,481	-	2,481
Dec-20	-	225,000	-	2,481	-	2,481
Jan-21	-	225,000	-	2,481	-	2,481
Feb-21	-	225,000	-	2,481	-	2,481
Mar-21	-	225,000	-	2,481	-	2,481
Apr-21	-	225,000	-	2,481	-	2,481
May-21	-	225,000	-	2,481	-	2,481
Jun-21	-	225,000	-	2,481	-	2,481
Jul-21	-	225,000	-	2,481	-	2,481
Aug-21	-	225,000	-	2,481	-	2,481
Sep-21	-	225,000	-	2,481	-	2,481
Oct-21	-	225,000	-	2,481	-	2,481
Nov-21	-	225,000	-	2,481	-	2,481
Dec-21	-	225,000	-	2,481	-	2,481
Jan-22	-	225,000	200,000	202,481	1,183	3,664
Feb-22	-	225,000	966	203,447	1,592	5,255
Mar-22	-	225,000	966	204,413	2,104	7,360
Apr-22	-	225,000	966	205,379	2,734	10,094
May-22	-	225,000	966	206,345	3,491	13,585
Jun-22	-	225,000	966	207,311	4,380	17,965
Jul-22	-	225,000	966	208,277	5,401	23,366
Aug-22	-	225,000	966	209,243	6,544	29,910
Sep-22	-	225,000	966	210,209	7,792	37,703
Oct-22	-	225,000	966	211,175	9,118	46,821
Nov-22	-	225,000	966	212,141	10,485	57,306
Dec-22	-	225,000	966	213,107	11,847	69,153
Jan-23	30,200	255,200	966	214,073	13,155	82,308
Feb-23	-	255,200	20,200	234,273	14,355	96,663
Mar-23	-	255,200	1,566	235,839	15,393	112,056
Apr-23	-	255,200	1,566	237,405	16,221	128,277
May-23	-	255,200	1,566	238,971	16,797	145,074
Jun-23	-	255,200	1,566	240,537	17,093	162,167
Jul-23	-	255,200	1,566	242,103	17,093	179,259
Aug-23	-	255,200	1,566	243,669	16,797	196,056
Sep-23	-	255,200	1,566	245,235	11,221	207,277
Oct-23	-	255,200	1,566	246,801	11,500	218,777
Nov-23	-	255,200	1,566	248,367	11,355	230,132
Dec-23	-	255,200	1,566	249,933	13,155	243,288
Jan-24	69,800	325,000	1,566	251,499	8,000	251,288
Feb-24	-	325,000	63,841	315,340	11,726	263,014
Mar-24	-	325,000	966	316,306	10,617	273,631
Apr-24	-	325,000	966	317,272	9,292	282,923
May-24	-	325,000	966	318,238	8,044	290,967
Jun-24	-	325,000	966	319,204	6,901	297,868
Jul-24	-	325,000	966	320,170	6,500	304,368
Aug-24	-	325,000	966	321,136	6,000	310,368
Sep-24	-	325,000	966	322,102	5,500	315,868
Oct-24	-	325,000	966	323,068	4,500	320,368
Nov-24	-	325,000	966	324,034	3,000	323,368
Dec-24	-	325,000	966	325,000	1,632	325,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2019.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award date of August 2019, Contract completion: December 2024, Duration 64 months.



<b>1. COMPONENT</b> AIR FORCE		<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20220308				
<b>3. INSTALLATION AND LOCATION</b> TINKER AIR FORCE BASE, OKLAHOMA				<b>4. COMMAND</b> AIR FORCE MATERIEL COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 0.88				
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
		<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF 30-SEP-21		259	808	14,380	0	0	0	985	4,465	545	21,442
b. END FY		279	895	14,475	0	0	0	1,019	4,495	580	21,743
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE										5,604	
b. INVENTORY TOTAL AS OF 30-SEP-21										6,787,684.00	
c. AUTHORIZATION NOT YET IN INVENTORY										343,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										43,600.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										647,690.00	
g. REMAINING DEFICIENCY										1,235,000.00	
h. GRAND TOTAL										9,056,974.00	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>											
<b>a. CATEGORY</b>				<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>					
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>		<b>(3) SCOPE</b>			<b>(1) START</b>	<b>(2) COMPLETE</b>				
911-146	FACILITY AND LAND AQUISITION (MROTC)		11,989 SM		30,000	N/A	N/A				
211-116	KC-46A 3-BAY DEPOT MAINTENANCE HANGAR INC 2		13,842 SM		49,000	06/20	09/21				
211-116	KC-46A FUEL POL INFRASTRUCTURE		1,500 SM		13,600	02/14	07/19				
<b>9. FUTURE PROJECTS</b>											
211-116 KC-46A 3-Bay Depot Maintenance Hangar Inc 3 (13,842 SM/\$26,000)											
211-111 KC-46A 2-Bay Program Depot Maintenance Hangar (10,220 SM/\$90,000)											
422-758 B-21 Warehouse (33,000 SM/\$61,690)											
211-179 B-21 Fuel & PDM docks A/C Sunshades (26,752 SM/\$189,000)											
211-111 B-21 Campus Infrastructure (5,000 LM/\$94,000)											
211-111 B-21 Paint And De-Paint Docks (8,166 SM/\$213,000)											
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
Tinker Air Force Base combined mission includes operations, supply, maintenance and management in support of the 76th Maintenance Wing, 552nd ACW, 327th Air Sustainment Wing, 448th Combat Sustainment Wing, 3rd Combat Comm, Air Force Reserves, Navy Stratcomm Wing One, 72nd Air Base Wing, Defense Logistics Agency and Defense Information Systems Agency.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>											
N/A											

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA		4. PROJECT TITLE FACILITY AND LAND AQUISITION (MROTC)		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 911-146	7. PROJECT NUMBER WWYK203003	8. PROJECT COST (\$000) 30,000	
9. COST STIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				26,119
HANGAR, MAINTENANCE DEPOT (211-116)	SM	11,989	1,523	(18,259)
SHOP, AIRCRAFT GENERAL PURPOSE (211-152)	SM	2,200	1,353	(2,977)
ABOVE GROUND TORNADO SHELTER (730-660)	SM	93	828	(77)
LAND FEE PURCHASE (911-146)	AC	133	31,347	(4,169)
CYBERSECURITY OF FACILITY RELATED CONTROL SYS	LS			(637)
SUPPORTING FACILITIES				3,630
UTILITIES	LS			(1,980)
PAVEMENTS	LS			(1,650)
SUBTOTAL				29,749
TOTAL CONTRACT COST				29,749
TOTAL REQUEST				29,749
TOTAL REQUEST (ROUNDED)				30,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(0)
10. Description of Proposed Construction: Acquire the Maintenance Repair Overhaul Technology Center (MROTC) facilities and real property through negotiated purchase price or fee simple purchase option. The site contains approximately 133 acres and 11,989 square meters of hangar space and 2,200 square meters of administrative/back shop areas, along with parking areas and ramp space. The MROTC is situated immediately east of the Tinker Air Force Base main installation across S Douglas Blvd. This project is a land purchase with purchase of all facilities currently occupying the land. The facilities outlined will be purchased as-is, and subsequent military construction projects will bring the facilities into compliance with Department of Defense Unified Facilities Criteria 1-200-01 and Antiterrorism/Force Protection Unified Facilities Criteria 4-010-01. Air Conditioning: 50 Tons				
11. Requirement: 11,989 SM Adequate: 0 SM Substandard: 0 SM PROJECT: FACILITY AND LAND AQUISITION (MROTC) REQUIREMENT: Tinker Air Force Base has been designated to provide programmed depot maintenance for the B-21 aircraft. The existing Maintenance Repair Overhaul Technology Center is preferred by both Oklahoma City Air Logistics Complex, Air Force Global Strike Command and the Department of the Air Force Rapid Capabilities Office as the location for the future B-21 depot campus.				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA		4. PROJECT TITLE FACILITY AND LAND AQUISITION (MROTC)		
5. PROGRAM ELEMENT  91211F	6. CATEGORY CODE  911-146	7. PROJECT NUMBER  WWYK203003	8. PROJECT COST (\$000)  30,000	
<p>The 53-acre Maintenance Repair Overhaul Technology Center and an adjacent 80-acre plot are owned by the Oklahoma Industries Authority. The current bed-down plan for the B-21 program requires 21 docks and 6 environmental shelters with associated facilities and infrastructure. The docks will include maintenance, paint, de-paint, wash, fuel, radio frequency diagnostic, and part storage. Environmental shelters will be utilized for outside working capability. Facilities will be built in phases with additional facilities required to support additional programmed depot maintenance inductions.</p> <p>CURRENT SITUATION: The combined 133 acres is the only site on Tinker Air Force Base capable of supporting the B-21 aircraft Program Decision Memorandum on a single, contiguous campus and will save an estimated \$285 million in B-21 program construction costs. Furthermore, the single campus concept will reduce depot sustainment costs by an estimated \$500 million over the B-21 program life cycle. To support design and infrastructure work for the B-21, land acquisition must occur no later than Fiscal Year 23 to support aircraft depot inductions. The Air Force is currently in a 5-year lease to use the hangars and existing infrastructure. There is no possibility of extending the lease. Tinker Air Force Base and the hangars/ infrastructure at the Maintenance Repair Overhaul Technology Center perform depot maintenance on the following aircraft/weapons systems: Navy E-6B, B-1, B-2, B-52, E-3 Airborne Warning and Control System, E-8 Joint Surveillance, Target, Attack Radar System, F-35 Joint Strike Fighter, Global Hawk, and Air Launched Cruise Missiles. Oklahoma City Air Logistics Center prepared a comprehensive capacity analysis and determined that aircraft maintenance is at 93 percent of dock utilization throughout Fiscal Years 19-22, this capacity includes the Maintenance Repair Overhaul Technology Center. Air Force Sustainment Center recommended dock utilization is 85 percent capacity without surge.</p> <p>IMPACT IF NOT PROVIDED: No suitable facilities are available to support the workload without disruptions in production of other aircraft depot maintenance. The land purchased with Maintenance Repair Overhaul Technology Center will provide space for hangars, docks, and facilities all to be in one location for the B-21 program. Failure to acquire the Maintenance Repair Overhaul Technology Center will have negative mission impacts on current workload and projected future depot maintenance growth of the B-21 program. With the Maintenance Repair Overhaul Technology Center site, the</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA		4. PROJECT TITLE FACILITY AND LAND AQUISITION (MROTC)		
5. PROGRAM ELEMENT  91211F	6. CATEGORY CODE  911-146	7. PROJECT NUMBER  WWYK203003	8. PROJECT COST (\$000)  30,000	
<p>76th Maintenance Group is currently operating at 94% capacity; without the site, capacity will increase to 108% when depot workload is relocated to Tinker. This would likely result in the elimination of ongoing workloads that are projected out until 2040; namely resulting in a 50% reduction to E-6 workload and likely eliminating all B-1 modifications at Oklahoma City Air Logistics Complex. Additionally, without the Maintenance Repair Overhaul Technology Center site, the 76th Maintenance Group will not be capable of activating B-52 Modernization efforts; representing a 66% increase to dock requirements and an estimated 88% increase to current B-52 hours over life of effort.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, new construction, lease extension, and land acquisition. Land acquisition is the only viable option to meet this requirement. A formal economic analysis has been approved. This project falls partially within the 100-year flood plain. This risk has been mitigated; the existing facility and any flood- susceptible utilities are above the 100-year flood level. This is a mission- critical facility. The current facilities and any flood-susceptible utilities are a minimum of three feet above the 100-year flood elevation. The land purchase is required to continue current mission requirements.</p> <p>72nd Air Base Wing Base Civil Engineer: (405) 734-3451.</p> <p>Hangar, Maintenance Depot: 11,989 SM = 129,049 Square Feet; Shop, Aircraft General Purpose: 2,200 SM = 23,681 Square Feet; Above Ground Tornado Shelter: 93 SM = 1,001 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022																												
3. INSTALLATION, SITE AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA		4. PROJECT TITLE FACILITY AND LAND AQUISITION (MROTC)																													
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 911-146	7. PROJECT NUMBER WWYK203003	8. PROJECT COST (\$000) 30,000																												
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Type of Design</td> <td>Land Acquisition</td> </tr> <tr> <td>(b) Date Design Started</td> <td>N/A</td> </tr> <tr> <td>(c) Parametric Cost Estimates used to develop costs</td> <td>YES</td> </tr> <tr> <td>(d) Percent Complete as of 01 JAN 2022</td> <td>N/A</td> </tr> <tr> <td>(e) Date 35% Designed</td> <td>N/A</td> </tr> <tr> <td>(f) Date Design Complete</td> <td>N/A</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>NO</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design</td> <td>NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used</td> <td>N/A</td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>0</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>0</td> </tr> <tr> <td>(c) Total</td> <td>0</td> </tr> <tr> <td>(d) Contract</td> <td>0</td> </tr> <tr> <td>(e) In-house</td> <td>0</td> </tr> </table> <p>(4) Construction Contract Award 23-MAY</p> <p>(5) Construction Start 23-JUL</p> <p>(6) Construction Completion 23-JUL</p> <p>b. Equipment associated with this project from other appropriations:</p> <p>N/A</p>				(a) Type of Design	Land Acquisition	(b) Date Design Started	N/A	(c) Parametric Cost Estimates used to develop costs	YES	(d) Percent Complete as of 01 JAN 2022	N/A	(e) Date 35% Designed	N/A	(f) Date Design Complete	N/A	(g) Energy Study/Life-Cycle analysis was/will be performed	NO	(a) Standard or Definitive Design	NO	(b) Where Design Was Most Recently Used	N/A	(a) Production of Plans and Specifications	0	(b) All Other Design Costs	0	(c) Total	0	(d) Contract	0	(e) In-house	0
(a) Type of Design	Land Acquisition																														
(b) Date Design Started	N/A																														
(c) Parametric Cost Estimates used to develop costs	YES																														
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(a) Production of Plans and Specifications	0																														
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(c) Total	0																														
(d) Contract	0																														
(e) In-house	0																														

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
2. INSTALLATION AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA		3. PROJECT TITLE: KC-46A 3-BAY DEPOT MAINTENANCE HANGAR, INC 2		
4. PROGRAM ELEMENT 41221F	5. CATEGORY CODE 211-116	7. PROJECT NUMBER WWYK213001	8. PROJECT COST (\$000) AUTH: 0, APPR: 49,000	
9. COST ESTIMATE				
ITEM	U/M	QTY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				122,158
HANGAR, MAINTENANCE DEPOT (211-116)	SM	13,842	5,830	(80,699)
SHOP, AIRCRAFT GENERAL PURPOSE (211-152)	SM	3,716	2,669	(9,918)
APRON (113-321)	SM	33,187	410	(13,607)
SHOULDER, PAVED (116-642)	SM	560	178	(100)
PAD, WARMUP, HOLDING (116-666)	SM	30,621	306	(9,370)
VEHICLE PARKING NON ORGANIZATIONAL (852-262)	SM	10,156	160	(1,625)
HYDRANT FUELING SYSTEM (121-122)	OL	4	965,000	(3,860)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(2,979)
SUPPORTING FACILITIES				17,267
BUREAU OF RECLAMATION WATER LINE RELOCATION	LS			(6,985)
UTILITIES	LS			(2,758)
STORM DRAINAGE	LS			(1,152)
COMMUNICATIONS	LS			(701)
SITE IMPROVEMENTS	LS			(4,860)
PASSIVE FORCE PROTECTION MEASURES	LS			(234)
REAL PROPERTY INSTALLED EQUIPMENT (CRANE)	LS			(577)
SUBTOTAL				139,425
CONTINGENCY (5.0%)				6,971
TOTAL CONTRACT COST				146,396
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				8,345
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				5,577
TOTAL REQUEST				160,318
TOTAL REQUEST (ROUNDED)				160,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(9,450)
10. DESCRIPTION OF PROPOSED WORK: Construct a high bay depot maintenance hangar for the KC-46A Pegasus Aerial Refueling Aircraft. The facility consists of three hangar docks sized to enclose the KC-46A aircraft and required clearances. Within the facility, there is a central area that houses the metal shop, kitting area, tool room, break room, and administrative offices. Additionally, there are utility rooms, communications rooms and other support spaces located within the hangar. The hangar bays will				

1. COMPONENT  AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE  APRIL 2022
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4. PROGRAM ELEMENT  41221F	5. CATEGORY CODE  211-116	7. PROJECT NUMBER  WWYK213001	8. PROJECT COST (\$000)  AUTH: 0, APPR: 49,000	
<p>accommodate the aircraft in both nose-in and tail-in configuration. Overhead cranes and fall protection will be integrated into this facility. The exterior facility envelope will be metal panels on girts with brick wainscot and large sliding hangar door. Construct a general purpose aircraft shop as a standalone facility with an exterior facility envelope similar to the maintenance hangar. The facility will consist of a panel shop, kitting build up area, kitting repair area, kitting system area, inventory area, drop off area, administrative area, restrooms, and utility rooms. The exterior facility envelope will be similar to the maintenance hangar. This project also includes clearing and grading site, storm drainage, aircraft parking/movement area, utility infrastructure systems, and other supporting facilities. Demolish existing Bureau of Reclamation water main and reroute around Tinker Air Force Base. No acquisition of real estate will be required to reroute the water main. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per United Facilities Criteria 4-010-01 and Unified Facilities Criteria 1-200-02.</p> <p>Air Conditioning: 67 Tons</p>				
<p>11. REQUIREMENT: 13,842 SM      ADEQUATE: 0 SM      SUBSTANDARD: 0 SM PROJECT: KC-46A 3-BAY DEPOT MAINTENANCE HANGAR, INC 2</p> <p>REQUIREMENT: Tinker Air Force Base currently supports depot maintenance for multiple United States Air Force aircraft. In keeping with this mission, the base will host the depot maintenance for the new KC-46A aircraft. The depot maintenance complex is required to provide a reliable and responsive infrastructure for this weapons system in order to provide timely/efficient repair and maintenance. Specifically, this three bay hangar dock will perform required programmed depot maintenance for the KC-46A. The aircraft general purpose shop will provide aircraft kits required for depot maintenance. The first aircraft will arrive at Tinker for depot maintenance in Mid-2020. Full production will average 90 aircraft per year. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: The facilities and supporting infrastructure is a critical requirement to support the success of the new KC-46A mission. Depot maintenance ensures aircraft are properly/efficiently maintained &amp; repaired to safeguard the pilots and longevity of the aircraft. Existing facilities and infrastructure within Tinker Air Force Base will not support the required</p>				

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2. INSTALLATION AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA		3. PROJECT TITLE: KC-46A 3-BAY DEPOT MAINTENANCE HANGAR, INC 2		
4. PROGRAM ELEMENT  41221F	5. CATEGORY CODE  211-116	7. PROJECT NUMBER  WWYK213001	8. PROJECT COST (\$000)  AUTH: 0, APPR: 49,000	
<p>maintenance of this aircraft due to its size and workload amount. The KC-46A has a wing span of 165 feet.</p>				
<p>IMPACT IF NOT PROVIDED: Failure to construct this program depot maintenance hangar would critically impact the Air Force's ability to repair and maintain the KC-46A aircraft. Depot maintenance is critical to the KC-46A mission.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in the Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard design from from the Air Force Civil Engineer Center nor the Army Corps of Engineers. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. An approved Economic Analysis determined new construction as the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with UFC 1-200-02: High Performance and Sustainable Building Requirements. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>72<sup>nd</sup> Air Base Wing Base Civil Engineer: (405) 734-3451.</p> <p>Hangar, Maintenance Depot: 13,842 SM = 148,994 Square Feet; Shop, Aircraft General Purpose: 3,716 SM = 39,999 Square Feet; Apron: 560 SM = 6,028 Square Feet; Pad, Warmup, Holding: 30,621 SM = 329,602 Square Feet; Vehicle Parking Non Organizational: 10,156 SM = 109,314 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
2. INSTALLATION AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA		3. PROJECT TITLE: KC-46A 3-BAY DEPOT MAINTENANCE HANGAR, INC 2		
4. PROGRAM ELEMENT 41221F	5. CATEGORY CODE 211-116	7. PROJECT NUMBER WWYK213001	8. PROJECT COST (\$000) AUTH: 0, APPR: 49,000	
12. SUPPLEMENTAL DATA				
a. Estimated Design Data:				
(1) Status				
(a) Type of Design				Design-Build
(b) Date Design Started				02-JUN-20
(c) Parametric Cost Estimates used to develop costs				YES
(d) Percent Complete as of 01 JAN 2022				100%
(e) Date 35% Designed				01-AUG-20
(f) Date Design Complete				09-SEP-21
(g) Energy Study/Life-Cycle cost analysis was/will be performed				YES
(2) Basis:				
(a) Standard or Definitive 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				9,600
(b) All Other Design Costs				4,800
(c) Total				14,400
(d) Contract				12,000
(e) In-house				2,400
(4) Construction Contract Award				22-APR
(5) Construction Start				22-MAY
(6) Construction Completion				25-MAY
b. Equipment associated with this project provided from other appropriations:				
			FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
EQUIPMENT NOMENCLATURE	PROCURING APPROP			
COMPUTERS	3400		2025	100
COMMUNICATIONS	3080		2025	600
FURNISHINGS	3080		2025	400
AGE & SUPPORT EQUIPMENT	3080		2025	4,425
MX & TEST STANDS/TESTERS	3080		2025	3,925

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4. PROGRAM ELEMENT 41221F	5. CATEGORY CODE 211-116	7. PROJECT NUMBER WWYK213001	8. PROJECT COST (\$000) AUTH: 0, APPR: 49,000

c. Title, Authorization, and Appropriation Summary:

FY 2022 Title is "KC-46A 3-Bay Depot Maintenance Hangar"

FY 2023 Proposed Title Change is "KC-46A 3-Bay Depot Maintenance Hangar, Inc 2"

	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY 2022 Enacted	160,000	60,000	85,000
FY 2023 Budget Request	-----	49,000	49,000
Future Request	-----	26,000	26,000
Total	160,000		160,000

**Project: KC-46A 3-Bay Depot Maintenance Hanger, Inc 2, Tinker AFB, OK**

**Project Spending Plan**

As of: 16-Mar-22

All Cost in thousands (\$000)

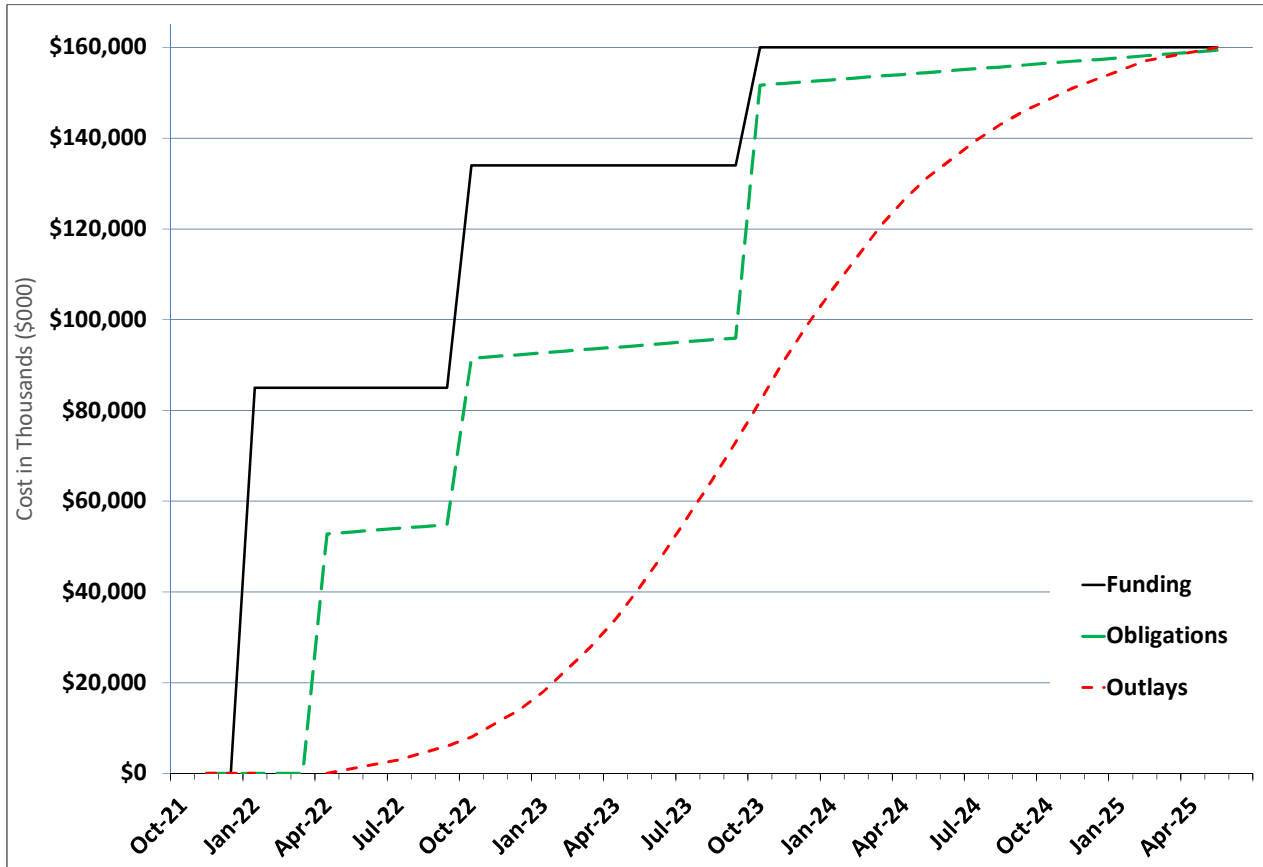
Chart Begin	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Nov-21	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Nov-21	-	-	-	-	-	-
Dec-21	-	-	-	-	-	-
Jan-22	85,000	85,000	-	-	-	-
Feb-22	-	85,000	-	-	-	-
Mar-22	-	85,000	-	-	-	-
Apr-22	-	85,000	52,800	52,800	-	-
May-22	-	85,000	406	53,206	1,000	1,000
Jun-22	-	85,000	406	53,612	1,000	2,000
Jul-22	-	85,000	406	54,018	1,000	3,000
Aug-22	-	85,000	406	54,424	1,500	4,500
Sep-22	-	85,000	406	54,830	1,500	6,000
Oct-22	49,000	134,000	36,646	91,476	2,000	8,000
Nov-22	-	134,000	406	91,882	3,000	11,000
Dec-22	-	134,000	406	92,288	3,000	14,000
Jan-23	-	134,000	406	92,694	4,000	18,000
Feb-23	-	134,000	406	93,100	5,000	23,000
Mar-23	-	134,000	406	93,506	5,000	28,000
Apr-23	-	134,000	406	93,912	6,000	34,000
May-23	-	134,000	424	94,336	7,000	41,000
Jun-23	-	134,000	406	94,742	7,500	48,500
Jul-23	-	134,000	406	95,148	8,000	56,500
Aug-23	-	134,000	406	95,554	8,000	64,500
Sep-23	-	134,000	406	95,960	8,500	73,000
Oct-23	26,000	160,000	55,678	151,638	9,000	82,000
Nov-23	-	160,000	406	152,044	9,000	91,000
Dec-23	-	160,000	406	152,450	8,000	99,000
Jan-24	-	160,000	406	152,856	7,500	106,500
Feb-24	-	160,000	406	153,262	7,000	113,500
Mar-24	-	160,000	406	153,668	7,000	120,500
Apr-24	-	160,000	406	154,074	6,000	126,500
May-24	-	160,000	406	154,480	5,000	131,500
Jun-24	-	160,000	406	154,886	4,000	135,500
Jul-24	-	160,000	406	155,292	4,000	139,500
Aug-24	-	160,000	406	155,698	3,500	143,000
Sep-24	-	160,000	406	156,104	3,000	146,000
Oct-24	-	160,000	406	156,510	2,500	148,500
Nov-24	-	160,000	406	156,916	2,500	151,000
Dec-24	-	160,000	406	157,322	2,000	153,000
Jan-25	-	160,000	406	157,728	2,000	155,000
Feb-25	-	160,000	406	158,134	2,000	157,000
Mar-25	-	160,000	406	158,540	1,000	158,000
Apr-25	-	160,000	406	158,946	1,000	159,000
May-25	-	160,000	406	159,352	1,000	160,000

Note 1: Assumes initial appropriation is enacted by Congress January 2022.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award date of Apr 2022 and contract completion May 2025; Duration 37 months

KC-46A 3-Bay Depot Maintenance Hanger, Inc 2, Tinker AFB, OK





1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE #1 OKLAHOMA		4. PROJECT TITLE KC-46A FUEL POL INFRASTRUCTURE		
5. PROGRAM ELEMENT 41211F	6. CATEGORY CODE 211-116	7. PROJECT NUMBER WWYK223005	8. PROJECT COST (\$000) 13,600	
9. COST ESTIMATES				
ITEM	U/M	QTY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				10,973
PIPELINE, LIQUID FUELS, UNDERGROUND (125-553)	LM	2,845	1,840	(5,235)
HANGAR, MAINTENANCE DEPOT (211-116)	SM	1,500	3,825	(5,738)
SUPPORTING FACILITIES				1,100
SITE ELECTRICAL UTILITIES	LS			(955)
SITE PREPARATION	LS			(145)
SUBTOTAL				12,073
CONTINGENCY (5.0%)				604
TOTAL CONTRACT COST				12,677
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				723
DESIGN DURING CONSTRUCTION				200
TOTAL REQUEST				13,600
TOTAL REQUEST (ROUNDED)				13,600
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(390)
10. DESCRIPTION OF PROPOSED WORK: Construct petroleum oils and lubricants lines and add/alter fuel yard on and around the KC-46A campus at Tinker Air Force Base. The work entails demolition and replacement of existing pavements, utilities and structures as well as construction and installation of new American Petroleum Institute 650 jet fuel tank, hydrant pump, issue filter/separator, appurtenances, and piping. Other associated work includes containment area, pig launcher pad, valve manifold pad, high point vent and low point drain pits. This project adds to and alters the existing alert area fuel yard to provide a fully functional, complete, and useable facility. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01. Air Conditioning: 0 Tons				

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5. PROGRAM ELEMENT 41211F	6. CATEGORY CODE 211-116	7. PROJECT NUMBER WWYK223005	8. PROJECT COST (\$000) 13,600	
<p>11. Requirement: 1,500 SM      Adequate: 0 SM      Substandard: 0 SM</p> <p>PROJECT: KC-46A FUEL POL INFRASTRUCTURE</p> <p>REQUIREMENT: Tinker Air Force Base currently supports depot maintenance for multiple United States Air Force aircraft and has been designated source of repair for the depot maintenance of the KC-46A aircraft. A depot maintenance complex is required to provide a reliable and responsive source for repair and maintenance for these first line weapon systems. This project will install a new fuel tank in the existing fuel farm east of the Navy Ramp and run a petroleum oils and lubricants line south to the KC-46A campus. This enables fuel to be provided to existing and future fuel pits on the KC-46A ramp and future test cell facility. This infrastructure is required to ensure the maintenance mission of the KC-46A is quickly and efficiently executed.</p> <p>CURRENT SITUATION: The facilities and supporting infrastructure are a critical requirement to support the success of the new KC-46A mission. Depot maintenance ensures aircraft are properly/efficiently maintained &amp; repaired to safeguard the pilots and longevity of the aircraft. Tinker has two fuel pits installed on the ramp with more to follow. Without the petroleum oils and lubricants line, these pits will not have fuel provided to them, leaving the existing fuels infrastructure inoperable. In the absence of a petroleum oils and lubricants line providing fuel to the fuel pits, Tinker is using fuel trucks to accomplish its fueling mission. Fuel trucks are inefficient and result in 8.72 hours of added time per aircraft in the fueling process compared to using fuel pits. Additionally, Tinker Air Force Base has a limited number of fuel trucks which are used by all weapons systems and missions at Tinker. The Tinker Air Force Base fuel truck fleet was not designed to support the KC-46A mission.</p> <p>IMPACT IF NOT PROVIDED: Failure to construct this project would critically impact the Air Forces ability to quickly, safely, and efficiently repair and maintain this new weapon system. Without the ability to use fuel pits on the KC-46A ramp, there will be a total of 2,130 maintenance hours of added fuel time. There also will be no fuel connections to the KC-46A high-bypass jet engine test facility. Additionally, fuel trucks will become scarcer as the KC-46A workload increases. Aircraft could wait up to 4 hours for a fuel truck during a single fueling operation due to lack of trucks.</p> <p>ADDITIONAL: This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), but will</p>				

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5. PROGRAM ELEMENT 41211F	6. CATEGORY CODE 211-116	7. PROJECT NUMBER WWYK223005	8. PROJECT COST (\$000) 13,600	
<p>not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. An approved Economic Analysis determined new construction as the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>72 Wing Base Civil Engineer: (405) 734-5871</p> <p>Pipeline Liquid Fuels: 2,845 Linear Meters = 9,334 Linear Feet</p> <p>Hangar, Maintenance Depot: 1,500 Square Meters = 16,146 Square Feet</p> <p>JOINT USE CERTIFICATION: This is an installation utility/infrastructure project, and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.</p>				

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5. PROGRAM ELEMENT 41211F	6. CATEGORY CODE 211-116	7. PROJECT NUMBER WWYK223005	8. PROJECT COST (\$000) 13,600	
12. SUPPLEMENTAL DATA:				
a. Estimated Design Data:				
(1) Status:				
(a) Type of Design	Design-Bid-Build			
(b) Date Design Started	12-FEB-14			
(c) Parametric Cost Estimates Used to develop costs	YES			
(d) Percent Complete as of 01 JAN 2022	100%			
(e) Date 35% Designed	21-OCT-15			
(f) Date Design Complete	08-JUL-19			
(g) Energy Study/Life-Cycle analysis was/will be performed	NO			
(2) Basis:				
(a) Standard or Definitive 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	780			
(b) All Other Design Costs	390			
(c) Total	1,170			
(d) Contract	975			
(e) In-house	195			
(4) Construction Contract Award	23-FEB			
(5) Construction Start	23-APR			
(6) Construction Completion	25-SEP			
b. Equipment associated with this project provided from other appropriations:				
			FISCAL YEAR	
			APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP		OR REQUESTED	(\$000)
DESIGN SERVICE & INVESTIGATION	3300	2023		390

<b>1. COMPONENT</b> AIR FORCE		<b>FY</b> <u>2023</u> <b>MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20220308				
<b>3. INSTALLATION AND LOCATION</b> SHAW AIR FORCE BASE, SOUTH CAROLINA					<b>4. COMMAND</b> AIR COMBAT COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 0.96			
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
		<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF 31-SEP-21		1,465	5,851	798							8,114
b. END FY		1,465	5,851	798							8,114
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE										15,933	
b. INVENTORY TOTAL AS OF 31-SEP-21										1,972,424.00	
c. AUTHORIZATION NOT YET IN INVENTORY										53,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										10,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										467,000.00	
h. GRAND TOTAL										2,502,424.00	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>											
<b>a. CATEGORY</b>				<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>					
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>			<b>(3) SCOPE</b>				<b>(1) START</b>	<b>(2) COMPLETE</b>		
134-375	RAPCON Facility			700 SM		10,000		04/20	08/21		
<b>9. FUTURE PROJECTS</b>											
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
The primary flying mission of Shaw AFB is to house the 20th Fighter Wing while it trains for combat deployments. The 20th Fighter Wing is made up of the 20th Mission Support Group, 20th Medical Group, 20th Maintenance Group, and 20th Operations Group which includes the 55th Fighter Squadron (27 F-16CMs), 77th Fighter Squadron (25 F-16CMs), and 79th Fighter Squadron (26 F-16CMs). In addition, the 20th Fighter Wing supports various tenant units, including 9th Air Force (AFCENT), 15th Air Force, 25th Attack Group, and 3rd Army (ARCENT).											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>											
N/A											

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION SHAW AIR FORCE BASE SHAW AIR FORCE BASE SITE #1 SOUTH CAROLINA		4. PROJECT TITLE RAPCON FACILIITY		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 134-375	7. PROJECT NUMBER VLSB093001	8. PROJECT COST (\$000) 10,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				4,809
RADAR APPROACH CONTR CENTER	SM	700	6,513	(4,559)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(250)
SUPPORTING FACILITIES				3,877
SITE PREPARATION	LS			(141)
SITE IMPROVEMENTS	LS			(67)
UTILITIES	LS			(1,793)
PAVEMENTS	LS			(160)
PASSIVE FORCE PROTECTION	LS			(496)
COMMUNICATIONS	LS			(741)
GENERATOR	KW	200	1,135	(227)
DEMOLITION	SM	629	401	(252)
SUBTOTAL				8,686
CONTINGENCY (5.0%)				434
TOTAL CONTRACT COST				9,120
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				520
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				347
TOTAL REQUEST				9,987
TOTAL REQUEST (ROUNDED)				10,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,550)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a new Radar Approach Control Center on Shaw Air Force Base. Facility shall be a one-story building that includes the following features: special concrete foundation and floor slab, structural steel frame with masonry exterior, standing seam metal roof (with lighting protection), 18-inch raised access flooring, sound proofing, fire rated partition walls, utilities, grounding, pavements, site improvements, communications support, fire protection/detection/suppression, mass emergency notification system, public announcement system, uninterruptable power supply, landscaping, back-up generator, N+1 redundant heating, ventilation and air conditioning system, simulator room, training room, remote locks, video cameras at single-point entry, cipher locks, and all other necessary supporting facilities for a complete and usable facility. This project demolishes an existing Radar Approach Control facility (629 SM). The demolition work will include testing/removal of asbestos and lead-based paint and any work needed to mitigate				

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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 134-375	7. PROJECT NUMBER VLSB093001	8. PROJECT COST (\$000) 10,000	
<p>potential hazards. Facility will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building Requirements. This project will comply with Department of Defense antiterrorism/force protection requirements per the Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 50 tons</p>				
<p>11. Requirement: 700 SM      Adequate: 0 SM      Substandard: 629 SM</p> <p>PROJECT: RAPCON FACILITY</p> <p>REQUIREMENT: Provide a Radar Approach Control facility that is adequately sized and configured to support the current mission requirements for airfield management. The mission of Shaw AFB is to house the 20th Fighter Wing while it trains for combat deployments the 25th Attack Group, Army Central Headquarters, 15th Air Force Headquarters and Air Force Central Headquarters units for operations. This facility will be configured to provide air traffic control for the surrounding region. This air traffic control facility uses radar equipment and non-radar procedures for the monitoring and control of all military and commercial aircraft in and around Shaw AFB, Poinsett Electronic Combat Range, McEntire Joint National Guard Base and eight (8) regional civilian airports. Additionally, Shaw Radar Approach Control personnel operate a separate and distinct Air Traffic Control entity known as Doubleshot. The Doubleshot Warning Areas controlled by Shaw Radar Approach Control hosted 6,154 military, commercial aircraft operations and transited 2.5 million commercial passengers. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: The existing facility was constructed in 1964 and has several building systems that are failing or close to failing, specifically fire protection, heating, ventilation and air conditioning, plumbing and electrical. A Fire Safety Deficiency Code II was issued on the facility due to the absence of fire sprinklers, smoke detectors, emergency lighting, and fire rated partitions. While a recent project replaced mechanical room equipment, the original ductwork, dampers and intakes remained in place leading extreme variations in temperature. There is no heating, ventilation and air conditioning redundancy. The original plumbing in the facility have reached the end of lifecycle more than a decade ago. Failing plumbing systems have served as conduits for insect and rodent infestations as documented in written several reports by the Shaw AFB Public Health office. The electrical wiring within the building has gone through several partial overhauls that have created a haphazard maze of wires supporting sensitive electronic equipment.</p> <p>A full renovation to address all deficient systems is impossible because the mission cannot be interrupted, and there are no temporary facilities available from the Department of Defense or Federal Aviation Administration. A phased renovation room by room cannot occur because of the sensitivity of the radar equipment, the potential for complete mission failure because of an electrical</p>				

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3. INSTALLATION, SITE AND LOCATION SHAW AIR FORCE BASE SHAW AIR FORCE BASE SITE #1 SOUTH CAROLINA			4. PROJECT TITLE RAPCON FACILIITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 134-375	7. PROJECT NUMBER VLSB093001	8. PROJECT COST (\$000) 10,000	
<p>outage, and the asbestos floor and ceiling. Even if these risks could be mitigated, the facility was sized to accommodate one mission rather than the two missions which it now accomplishes. The lack of necessary space has left equipment in hallways and forced mission critical radar system spare parts into a separate facility that is half a mile away. Lastly, the site itself is not geometrically capable of meeting the American Disabilities Act or the antiterrorism/force protection stand-off requirements even if the facility is extensively renovated.</p> <p>IMPACT IF NOT PROVIDED: In the event that Shaw Radar Approach Control services are unavailable, the Federal Aviation Administration would be limited to provide very basic Instrument Flight Rules services. This would severely impact all customers of Shaw Radar Approach Control, especially during Instrument Meteorological Conditions in which cloud heights are less than 1,000 feet or visibility is less than 3 miles. Flight training in Instrument Meteorological Conditions would be severely hampered since the Federal Aviation Administration is under no obligation, nor do they have the manning to provide an equivalent level of service to those areas controlled by Shaw Radar Approach Control. The Federal Aviation Administration would not provide any services for Doubleshot due to Letters of Agreement, lack of experience, and lack of manning. Similarly, the Federal Aviation Administration would not provide control for military flight training areas or routes over land that lay within Shaw Radar Approach Control airspace. A critical failure in any of the already degraded building systems would likely ground the primary flying mission of Shaw AFB. This facility will remain a single point of failure and has the potential to negatively impact all military and commercial air space in South Carolina and along the entire east coast.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements and Unified Facilities Criteria 4-133-01, Air Traffic Control and Air Operations Facilities. All reasonable alternatives were considered during the development of this project to include status quo, renovation, leased facility, and new construction. An approved Economic Analysis determined new construction as the only viable option that will meet operational requirements. The supporting facilities cost exceeds 25 percent of the primary facility cost due to the lack of utilities and communications infrastructure in the vicinity of the project area. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project that meet mission need and there is no applicable standard design from the Naval Facilities</p>				



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION SHAW AIR FORCE BASE SHAW AIR FORCE BASE SITE #1 SOUTH CAROLINA		4. PROJECT TITLE RAPCON FACILIITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 134-375	7. PROJECT NUMBER VLSB093001	8. PROJECT COST (\$000) 10,000
<p>Engineering Systems Command. This project does not fall within or partly within a 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>20 CES Base Civil Engineer: (803) 895-9562</p> <p>RADAR APPROACH CONTR CENTER: 700 SM = 7,535 Square Feet;</p> <p>DEMOLITION: 629 SM = 6,770 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements</p>			

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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 134-375	7. PROJECT NUMBER VLSB093001	8. PROJECT COST (\$000) 10,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Build		
(b) Date Design Started	15-APR-20		
(c) Parametric Cost Estimates Used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2022	100%		
(e) Date 35% Designed	22-SEP-20		
(f) Date Design Complete	30-AUG-21		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive 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	124		
(b) All Other Design Costs	266		
(c) Total	390		
(d) Contract	100		
(e) In-house	290		
(4) Construction Contract Award	23-FEB		
(5) Construction Start	23-APR		
(6) Construction Completion	25-APR		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
FURNITURE FIXTURES & EQUIPMENT	3080	2024	550
COMMUNICATION EQUIPMENT	3080	2024	500
UNINTERRUPTIBLE POWER SUPPLY	3080	2024	500

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE (YYYYMMDD)</b> 20220308			
<b>3. INSTALLATION AND LOCATION</b> ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA					<b>4. COMMAND</b> AIR FORCE GLOBAL STRIKE COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> .97			
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
		<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF	30-SEP-21	356	2,953	556	0	0	0	11	13	0	3,889
b. END FY		356	2,953	567	0	0	0	11	13	0	3,900
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE										7,813	
b. INVENTORY TOTAL AS OF 30-SEP-21										1,917,095.00	
c. AUTHORIZATION NOT YET IN INVENTORY										338,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										328,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										39,262.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										267,577.00	
g. REMAINING DEFICIENCY										111,000.00	
h. GRAND TOTAL										3,008,747.00	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE			(3) SCOPE				(1) START	(2) COMPLETE		
211-111	B-21 2-BAY LO RESTORATION FACILITY, INC 3			8,890 SM		91,000		12/19	03/21		
141-489	B-21 RADIO FREQUENCY FACILITY			5,995 SM		77,000		10/20	01/22		
215-582	B-21 WEAPONS GENERATION FACILITY, INC 1			5,694 SM		50,000		07/19	10/21		
<b>9. FUTURE PROJECTS</b>											
211-179 B-21 Fuel System Maintenance Dock ( 3,623 SM / \$39,262 )											
215-582 B-21 Weapons Generation Facility Inc 2 ( 5,694 SM / \$160,000 )											
211-179 B-21 Fuel Cell ( TBD / \$28,154 )											
215-582 B-21 Weapons Generation Facility Inc 3 ( 5,694 SM / \$41,000 )											
211-111 B-21 Phase Hangar (TBD / \$75,854 )											
141-181 B-21 Construct EPS's (60 Row) ( TBD / \$58,816 )											
141-181 B-21 Construct EPS's (80 Row) ( TBD / \$35,010 )											
113-321 B-21 Alert Apron Expansion ( TBD / \$17,073 )											
141-181 B-21 Construct EPS's (100 Row) ( TBD / \$11,670 )											
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
Ellsworth AFB consists of the 28th Bomb Wing assigned to the 8th Air Force under Air Force Global Strike Command. The mission of the 28th Bomb Wing is to put bombs on target. The 28th Bomb Wing is home to 27 B-1B Lancers, and in 2012 began flying MQ-9 Reaper missions. The 28th Bomb Wing is divided into the 28th Operations Group, the 28th Maintenance Group, the 28th Mission Support Group and the 28th Medical Group. The 89th Attack Squadron is a tenant unit at Ellsworth Air Force Base assigned to Air Combat Command.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>											
N/A											

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA		4. PROJECT TITLE: B-21 2-BAY LO RESTORATION FACILITY, INC 3		
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 211-111	7. PROJECT NUMBER FXBM1081508	8. PROJECT COST (\$000) AUTH: 0 APPR: 91,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				75,180
HANGAR, MAINTENANCE (211-111)	SM	8,890	7,007	(62,292)
APRON (113-321)	SM	21,586	460	(9,951)
SHOULDER, PAVED (116-642)	SM	3,293	335	(1,103)
CYBERSECURITY OF FACILITY-RELATED CONTROL	LS			(1,834)
SYS SUPPORTING FACILITIES				11,732
SITE IMPROVEMENTS	LS			(2,418)
UTILITIES	LS			(883)
COMMUNICATIONS	LS			(736)
PASSIVE FORCE PROTECTION	LS			(255)
PAVEMENTS	LS			(4,500)
AGE REFUELING	LS			(750)
GENERATOR	KW	150	900	(135)
DEMOLITION	SM	2,655	774	(2,055)
SUBTOTAL				86,912
CONTINGENCY COST (5%)				4,346
TOTAL CONTRACT COST				91,258
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				5,202
TOTAL REQUEST				96,459
TOTAL REQUEST (ROUNDED)				96,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(2,220)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a high bay special maintenance hangar with two segregated aircraft positions and all associated back shop, unique climatically controlled material storage with uninterrupted power supply system, administrative and facility support spaces. This project includes clearing and gradingsite, storm drainage, aircraft parking and movement area, utility infrastructure systems and all other supporting facilities. Construction includes reinforced concrete foundation, steel frame structure, with metal roof. Include two-bay hangar spaces, powered hangar doors, fire protection, ground points, temperature & humidity control, filtration & ventilation, back-up power to accommodate material storage, painting and surface prep. Include edge lighting in support of apron area and aircraft electrical power to accommodate maintenance. Due to existing expansive clay soils, excavation for reinforced concrete foundation will require over-excavation of approximately four (4) feet of depth and backfill with stabilized materials. Construction will include a full				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA		4. PROJECT TITLE: B-21 2-BAY LO RESTORATION FACILITY, INC 3		
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 211-111	7. PROJECT NUMBER FXBM1081508	8. PROJECT COST (\$000) AUTH: 0 APPR: 91,000	
<p>depth replacement of the apron and support pavements in the area designated next to the Low Observable Facility. The sub-base, base course and concrete or asphalt are to be replaced for the new pavement. Project will include the demolition of Dock 60/ Building 7262 (2,625 Square Meters), Building 7275 (15 Square Meters), and Building 7276 (15 Square Meters) (Total: 2,655 Square Meters), in addition to an existing pavements. Thedemolition of the Aircraft Ground Equipment facilities shall include removal and disposal of an underground fuel tank, piping, and refueling point. Contaminated soil may be encountered during demolition and site work and must be properly disposed of. Construction of the Low Observable Facility will cause displacement of the existing Aircraft Ground Equipment. The Aircraft Ground Equipment facilities will be relocated and replaced with an above ground tank. Pavements will be designed in accordance to Unified Facilities Criteria 2-260-01 and Unified Facilities Criteria 2-260-02. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 500 Tons</p>				
<p>11. REQUIREMENT: 8,890 SM                    ADEQUATE: 0 SM    SUBSTANDARD: 0 SM</p> <p>PROJECT: Construct a B-21 2-bay Low Observable Restoration Facility</p> <p>REQUIREMENT: Two restoration spaces (two bays) are required for B-21 aircraft undergoing repair and restoration of low observable characteristics. This will include the application of materials via spraying. The aircraft must undergo this restoration after scheduled and unscheduled maintenance work. This facility needs to be equipped with an environmental control system to provide temperature and humidity conditions forlow observable maintenance. The facility will include an air ventilation, filtration system and clean/dirty locker room space to meet appropriate codes and requirements for the protection of workers and to control air emissions. Secured storage and support space is required for Composite Tool Kits, Low Observable Restoration Materials and war readiness material support kits. The facility will also have a Low Observable Task Trainer integrated into the building. This facility will require an uninterrupted powersupply system. Office and training spaces are needed to facilitate operational support. The facility must also be secured to prevent unauthorized access. Mission demands and life-cycle sustainment costs indicate that the reinforced concrete floor be able to sustain the weight of a fully fueled aircraft. The apron and support pavements are required for the Low Observable Restoration Facility to provide aircraft access to Taxiway A and into either bay of the facility. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: This is a new requirement to support the B-21. There are no facilities that meet this requirement, nor are there existing facilities can be modified to meet the requirement. There are no hangars that can accept the B-21</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA		4. PROJECT TITLE: B-21 2-BAY LO RESTORATION FACILITY, INC 3		
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 211-111	7. PROJECT NUMBER FXBM1081508	8. PROJECT COST (\$000) AUTH: 0 APPR: 91,000	
<p>Airframe wingspan without heavy modification to existing facilities and/or impacting current missions from the B-1B. Current pavement in the area has been rated as Poor or Very Poor according to the Pavement Condition Index from the Airfield Pavement Evaluation Report for Ellsworth AFB conducted in September 2015. In addition, the existing aprons and pavements do not line up with the new path needed for the intended aircraft. In current situation, aircraft would have to taxi over 2.25 inches of asphalt which has high levels of longitudinal distressed cracking. The apron area cannot support any aircraft movement and pavements have significant structural deficiencies.</p> <p>IMPACT IF NOT PROVIDED: No facilities currently exist to handle the B-21 low observable maintenance requirements. The Wing will not be able to provide combat capable aircraft to support all mission targeting requirements. The aircraft Low Observable signature would be compromised in combat. Without this maintenance capability, aircraft will almost immediately become inoperable and bomber readiness will fall short of its intended goal. For the pavement, aircraft would not be able to move along the 60 Row to and/or from the Low Observable Restoration Facility and will therefore be unusable without proper apron and pavement replacement.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with UFC 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. A formal economic analysis has been approved and new construction was the only viable option to meet this requirement. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>Base Civil Engineer: (605) 385-2658.</p> <p>Hangar: 8,890 Square Meters = 95,691 Square Feet;</p> <p>Apron: 21,586 Square Meters = 232,350 Square Feet;</p> <p>Shoulder, Paved: 3,293 Square Meters = 35,446 Square Feet;</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA		4. PROJECT TITLE: B-21 2-BAY LO RESTORATION FACILITY, INC 3	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 211-111	7. PROJECT NUMBER FXBM1081508	8. PROJECT COST (\$000) AUTH: 0 APPR: 91,000
<p>Demolition: 2,655 Square Meters = 28,578 Square Feet.</p> <p>JOINT USE CERTIFICATION: Mission requirements, operational consideration, and location are incompatible with use by other components.</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA		4. PROJECT TITLE: B-21 2-BAY LO RESTORATION FACILITY, INC 3	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 211-111	7. PROJECT NUMBER FXBM1081508	8. PROJECT COST (\$000) AUTH: 0 APPR: 91,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status			
(a) Type of Design	DESIGN-BID-BUILD		
(b) Date Design Started	20-DEC-19		
(c) Parametric Cost Estimates Used to Develop Costs	YES		
(d) Percent Complete as of 01-JAN-2022	100%		
(e) Date Design 35% Complete	29-APR-20		
(f) Date Design 100% Complete	31-MAR-21		
(g) Energy Study and Life Cycle analysis was performed	YES		
(2) Basis			
(a) Standard or Definitive Design Used	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	6,060		
(b) All Other Design Costs	3,030		
(c) Total	9,090		
(d) Contract	7,575		
(e) In-House	1,515		
(4) Construction Contract Award	21-SEP		
(5) Construction Start	22-NOV		
(6) Construction Completion	24-SEP		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPRO	OR REQUESTED	(\$000)
FURNISHINGS, FIXTURES,	3080	2023	890
EQUIPMENT COMMUNICATIONS	3080	2023	553
UNINTERRUPTED POWER SUPPLY	3080	2023	327
SECURITY SYSTEM	3080	2023	450



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA		4. PROJECT TITLE: B-21 2-BAY LO RESTORATION FACILITY, INC 3	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 211-111	7. PROJECT NUMBER FXBM1081508	8. PROJECT COST (\$000) AUTH: 0 APPR: 91,000
c. Title, Authorization, and Appropriation Summary:			
FY 2021 Title is "B-21 2-Bay LO Restoration Facility"			
FY 2023 Proposed Title Change is "B-21 2-Bay LO Restoration Facility, Inc 3"			
	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY 2021 Enacted	96,000	10,000	10,000
Cost Variation Aug 2021	58,638	-----	-----
FY 2022 Enacted	-----	41,000	91,000
FY 2023 Budget Request	-----	91,000	<u>91,000</u>
Total	154,638		192,000
* A Section 2853 request will be submitted in order to support the required higher authorization			

**Project: B-21 2-BAY LO RESTORATION FACILITY, Inc 3, ELLSWORTH AFB, SD**

**Project Spending Plan**

As of: 16-Mar-22

All Cost in thousands (\$000) 160,000

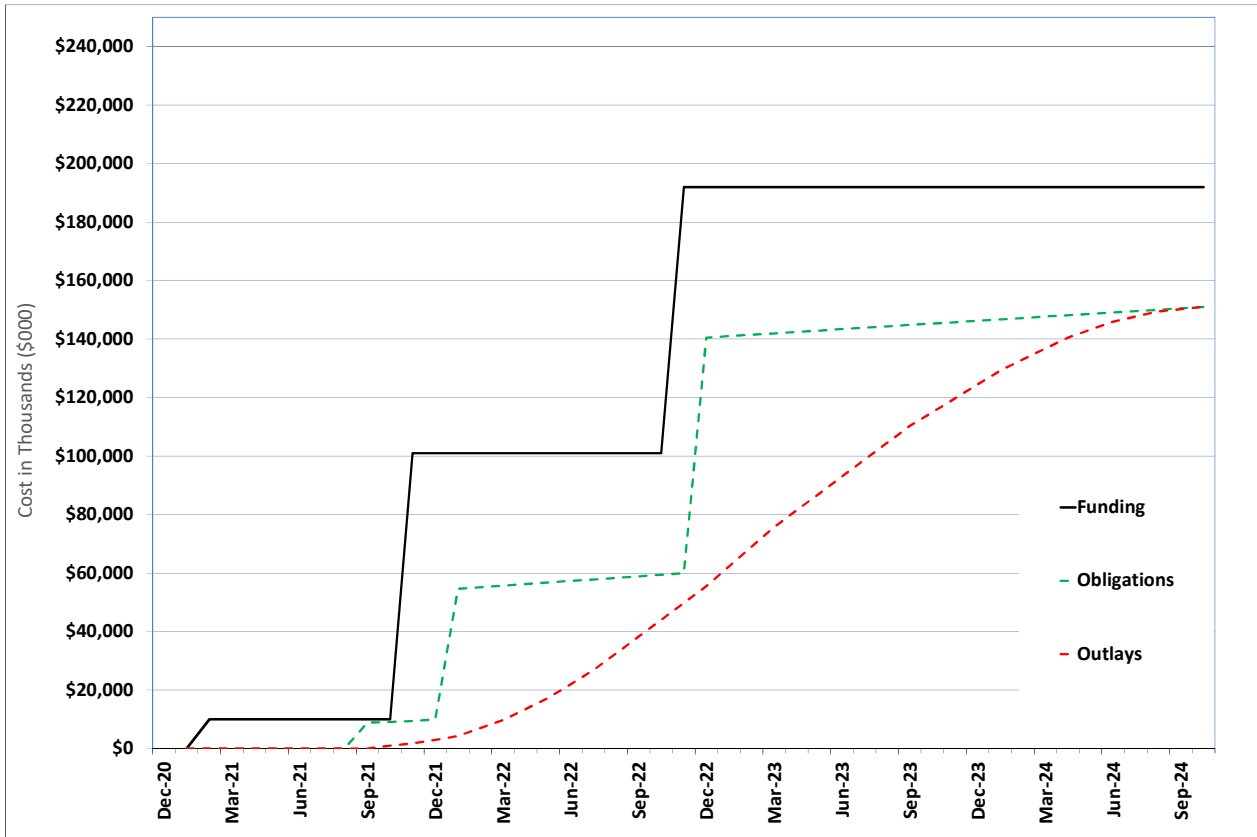
Chart Begin Jan-21	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
	Enacted	Cumulative	obligated	Cumulative	Monthly	Cumulative
Dec-20	-	-	-	-	-	-
Jan-21	10,000	10,000	-	-	-	-
Feb-21	-	10,000	-	-	-	-
Mar-21	-	10,000	-	-	-	-
Apr-21	-	10,000	-	-	-	-
May-21	-	10,000	-	-	-	-
Jun-21	-	10,000	-	-	-	-
Jul-21	-	10,000	-	-	-	-
Aug-21	-	10,000	-	-	-	-
Sep-21	-	10,000	8,812	8,812	-	-
Oct-21	91,000	101,000	297	9,109	750	1,000
Nov-21	-	101,000	297	9,406	750	1,750
Dec-21	-	101,000	594	10,000	1,250	3,000
Jan-22	-	101,000	44,595	54,595	1,250	4,250
Feb-22	-	101,000	535	55,130	2,750	7,000
Mar-22	-	101,000	535	55,665	2,750	9,750
Apr-22	-	101,000	537	56,202	3,750	13,500
May-22	-	101,000	540	56,742	3,750	17,250
Jun-22	-	101,000	540	57,282	4,750	22,000
Jul-22	-	101,000	540	57,822	4,750	26,750
Aug-22	-	101,000	544	58,366	5,750	32,500
Sep-22	-	101,000	545	58,911	5,750	38,250
Oct-22	91,000	192,000	545	59,456	5,750	44,000
Nov-22	-	192,000	545	60,001	5,750	49,750
Dec-22	-	192,000	80,508	140,509	5,750	55,500
Jan-23	-	192,000	480	140,989	6,750	62,250
Feb-23	-	192,000	480	141,469	6,750	69,000
Mar-23	-	192,000	480	141,949	6,750	75,750
Apr-23	-	192,000	480	142,429	5,750	81,500
May-23	-	192,000	480	142,909	5,750	87,250
Jun-23	-	192,000	480	143,389	5,750	93,000
Jul-23	-	192,000	480	143,869	5,750	98,750
Aug-23	-	192,000	480	144,349	5,750	104,500
Sep-23	-	192,000	480	144,829	5,750	110,250
Oct-23	-	192,000	475	145,304	4,750	115,000
Nov-23	-	192,000	475	145,779	4,750	119,750
Dec-23	-	192,000	475	146,254	4,750	124,500
Jan-24	-	192,000	475	146,729	4,750	129,250
Feb-24	-	192,000	475	147,204	3,750	133,000
Mar-24	-	192,000	475	147,679	3,750	136,750
Apr-24	-	192,000	475	148,154	3,750	140,500
May-24	-	192,000	475	148,629	2,750	143,250
Jun-24	-	192,000	475	149,104	2,750	146,000
Jul-24	-	192,000	475	149,579	1,750	147,750
Aug-24	-	192,000	475	150,054	1,750	149,500
Sep-24	-	192,000	475	150,529	750	150,250
Oct-24	-	192,000	471	151,000	750	151,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY21.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award date of September 2021, Contract completion: Oct 2024, Duration 37 months.

**B-21 2-BAY LO RESTORATION FACILITY, Inc 3, ELLSWORTH AFB, SD**



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA		4. PROJECT TITLE: B-21 RADIO FREQUENCY FACILITY		
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 141-489	7. PROJECT NUMBER FXBM233405	8. PROJECT COST (\$000) 77,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				58,744
AIRCRAFT CONTR AND WARNING OPERATIONS (141-489)	SM	5,995	9,035	(54,165)
APRON (113-321)	SM	6,550	447	(2,929)
SHOULDER, PAVED (116-642)	SM	400	542	(217)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(1,433)
SUPPORTING FACILITIES				9,890
UTILITIES	LS			(2,679)
SITE PREPARATION	LS			(1,550)
ROADS, SIDEWALKS, AND PARKING	LS			(1,640)
SITE IMPROVEMENTS	LS			(261)
PASSIVE FORCE PROTECTION	LS			(347)
MEASURES DEMOLITION	SM	3,401	932	(3,170)
COMMUNICATION	LS			(243)
SUBTOTAL				68,634
CONTINGENCY COST (5.0%)				3,432
TOTAL CONTRACT COST				72,066
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				4,108
DESIGN DURING CONSTRUCTION (0.6%)				432
TOTAL REQUEST				76,606
TOTAL REQUEST (ROUNDED)				77,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(3,405)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a high bay special maintenance hangar with one aircraft position and all associated back shops, unique climatically controlled material storage with uninterrupted power supply system, and administrative and facility support spaces. This project includes clearing and grading site, storm drainage, aircraft parking and movement area, utility infrastructure systems and all other supporting facilities. Construction includes reinforced concrete foundation, steel frame structure, with metal roof. Includes one hangar space, powered hangar doors, fire protection, grounding points, temperature & humidity control, filtration & ventilation, back-up power to accommodate material storage, painting and surface prep, and aircraft electrical power to accommodate maintenance. Due to existing expansive clay soils, excavation for reinforced concrete foundation and floor slabs will require over-excavation of approximately four (4) feet of depth and backfill				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA		4. PROJECT TITLE: B-21 RADIO FREQUENCY FACILITY	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 141-489	7. PROJECT NUMBER FXBM233405	8. PROJECT COST (\$000) 77,000
<p>with stabilized materials. Construction will include a full depth replacement of the apron and support pavements in the area designated next to the Radio Frequency Measurement Facility. The existing sub-base, base course, concrete and asphalt shall be removed and replaced. Project will include the demolition of Dock 63 (Building 7256) (3,401 Square Meters), existing pavement and asphalt. Contaminated soil may be encountered during demolition and site work and must be properly disposed of. Pavements will be designed in accordance with Unified Facilities Criteria 2-260-01 and Unified Facilities Criteria 2-260-02. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01.</p> <p>Air Conditioning: 150 Tons</p>			
<p>11. REQUIREMENT: 5,995 SM      ADEQUATE: 3,545 SM      SUBSTANDARD: 0 SM</p> <p>PROJECT: Construct a single bay B-21 Radio Frequency Measurement Facility.</p> <p>REQUIREMENT: Provide a modern and efficient single bay Radio Frequency Measurement Facility to house B-21 aircraft undergoing periodic inspections of low observable characteristics. The aircraft must undergo this measurement after scheduled and unscheduled maintenance work. This facility needs to be equipped with an environmental control system to provide temperature and humidity controls to not fluctuate more than 10 degrees for low observable radio frequency measurements. Secured storage and support space is required for Composite Tool Kits, radio frequency measurement devices and fixtures. Office and training spaces are needed to facilitate operational support and processing of data. The facility must also be secured to prevent unauthorized access. Mission demands and life-cycle sustainment costs indicate that the reinforced concrete floor be able to sustain the weight of a fully fueled aircraft. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: This is a new requirement to support the B-21. There are no facilities that meet this requirement, nor are there existing facilities can be modified to meet the requirement. There are no hangars that can accept the B-21 Airframe wingspan without heavy modification to existing facilities, impacting current missions from the B-1B. One facility exists that could meet mission requirements (building 7540), however it is occupied as a Maintenance Squadron for the group commander and staff as well as an avionics and maintenance supply warehouse. This facility is not in a controlled movement area that can be accessed for aircraft parking to facilitate the required maintenance. Current pavement in the area has been rated as "Poor" or "Very Poor" according to the Pavement Condition Index from the Airfield Pavement Evaluation Report for Ellsworth AFB (September 2015) and must be replaced. In addition, the existing aprons and taxi lanes do</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA		4. PROJECT TITLE: B-21 RADIO FREQUENCY FACILITY	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 141-489	7. PROJECT NUMBER FXBM233405	8. PROJECT COST (\$000) 77,000
<p>not line up with the new path needed for the intended aircraft. Aircraft would have to taxi over 2.25 inches of asphalt which has high levels of longitudinal distressed cracking. The apron area cannot support any aircraft movement.</p> <p>IMPACT IF NOT PROVIDED: No facilities currently exist to handle the B-21 Radio Frequency Facility requirements and inspection. Due to the aircraft's low observable features, radio frequency measurements have to be performed frequently to ensure that aircraft capabilities are maintained. The Wing will not be able to maintain and provide mission capable aircraft without this facility. For the pavement: aircraft will not be able to move to the end of 60 Row to access the Radio Frequency Facility. The facility will therefore be unusable without a properly replaced apron.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New construction is the only viable option to meet this requirement. A waiver to an economic analysis was coordinated and signed in September 2021. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100 year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center.</p> <p>Base Civil Engineer: (605) 385-2658.</p> <p>Aircraft Contr and Warning Operations: 5,995 SM = 64,530 Square Feet;</p> <p>Apron: 6,550 SM = 70,504 Square Feet;</p> <p>Shoulder, Paved: 400 SM = 4,306 Square Feet;</p> <p>Demolition: 3,401 SM = 36,608 Square Feet.</p> <p>JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use by other components.</p>			

1. COMPONENT AIR FORCE		FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022	
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA			4. PROJECT TITLE: B-21 RADIO FREQUENCY FACILITY		
5. PROGRAM ELEMENT 64015F		6. CATEGORY CODE 141-489	7. PROJECT NUMBER FXBM233405	8. PROJECT COST (\$000) 77,000	
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status					
(a) Type of Design				DESIGN-BID-BUILD	
(b) Date Design Started				22-OCT-20	
(c) Parametric Cost Estimates Used to Develop Costs				YES	
(d) Percent Complete as of 01 Jan 2022				35%	
(e) Date 35% Designed				10-FEB-21	
(f) Date Design Complete				12-JAN-22	
(g) Energy Study/Life Cycle analysis was/will be performed				YES	
(2) Basis					
(a) Standard or Definitive Design Used				NO	
(b) Where Design Was Previously Used				N/A	
(3) Total Cost (c) = (a) + (b) or (d) + (e)				(\$000)	
(a) Production of Plans and Specifications				4,560	
(b) All Other Design Costs				2,280	
(c) Total				6,840	
(d) Contract				5,700	
(e) In-House				1,140	
(4) Construction Contract Award				23-MAR	
(5) Construction Start				23-APR	
(6) Construction Completion				25-OCT	
b. Equipment associated with this project provided from other appropriations:					
EQUIPMENT NOMENCLATURE		PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)	
FURNISHINGS, FIXTURES, & EQUIPMENT		3080	2024	1,001	
ACCESS CONTROL/SECURITY		3080	2024	2,072	
COMMUNICATION		3080	2024	332	

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022	
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA			4. PROJECT TITLE: B-21 WEAPONS GENERATION FACILITY, INC 1		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER FXBM225791	8. PROJECT COST (\$000) AUTH: 251,000 APPRO: 50,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					140,000
SPECIAL WEAPON MAINTENANCE SHOP (215-582)		SM	5,694	16,192	(92,197)
ALERT FIRE TEAM FACILITY (730-836)		SM	510	18,494	(9,432)
ENTRY CONTROL BUILDING (730-837)		SM	646	15,907	(10,256)
GENERATOR BUILDING (811-147)		SM	149	30,901	(4,604)
WATER FIRE PUMPING STATION (843-316)		SM	301	29,053	(8,745)
GANTRY/BRIDGE CRANE (890-154)		EA	6	648,459	(3,891)
FENCE INTERIOR (872-248)		LM	576	12,917	(7,440)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(3,415)
SUPPORTING FACILITIES					75,965
SITE IMPROVEMENTS		LS			(16,825)
SITE PREPARATION		LS			(7,815)
COMMUNICATIONS		LS			(7,185)
ROADS, SIDEWALKS, AND PARKING		LS			(5,880)
PASSIVE FORCE PROTECTION MEASURES		LS			(9,049)
UTILITES		LS			(28,125)
GENERATORS		KW	1,250	870	(1,088)
SUBTOTAL					215,967
CONTINGENCY COST (10.0%)					21,597
TOTAL CONTRACT COST					237,564
SUPERVISION, INSPECTION & OVERHEAD (5.7%)					13,541
TOTAL REQUEST					251,105
TOTAL REQUEST (ROUNDED)					251,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(52,280)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a Special Weapon Maintenance Shop or more commonly referred to as a Weapons Generation Facility that is a consolidated, hardened facility within a protective zone, with consolidated storage, maintenance, inspection, and administrative functions using best practices from similar Department of the Navy and Department of Energy facilities currently in use. Project will construct a fire suppression					



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA			4. PROJECT TITLE: B-21 WEAPONS GENERATION FACILITY, INC 1	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER FXBM225791	8. PROJECT COST (\$000) AUTH: 251,000 APPRO: 50,000	
<p>system, all utilities, pavements, communication, site improvements, Security Forces Fire Team Facility, Entry Control Point /Shelter and associated support facilities to provide a complete and useable facility. Six 5-ton overhead bridge cranes will be constructed for maintenance purposes in each maintenance bay. Five of the six will be nuclear certifiable. All construction will meet requirements for essential facility system nuclear design certification. Backup generator is authorized in accordance with Air Force Instruction 32-1062 for this facility type. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with DoD Antiterrorism/Force Protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 150 Tons</p>				
<p>11. REQUIREMENT: 5,694 SM      ADEQUATE: 0 SM      SUBSTANDARD: 0 SM</p> <p>PROJECT: Construct a B-21 Weapons Generation Facility</p> <p>REQUIREMENT: Project is to construct a weapons generation facility to grant nuclear capability at Ellsworth Air Force Base, South Dakota. A reinforced concrete facility that places all nuclear maintenance and storage operations in a single facility to minimize the effects of weather in operations, improve operations security, and increase security posture. Weapons generation facilities are single hardened facilities within a protective zone. Backup generators are a requirement for the facility for the critical operations in the facility. Nuclear certified hoists and cranes are also required to perform asset handling and maintenance functions.</p> <p>CURRENT SITUATION: This is a new requirement to support the B-21. The Ellsworth Air Force Base Weapons Generation Facility initiative is an important element of a broader Weapons Generation Facility Investment Strategy under Air Force Global Strike Command. Ellsworth does not have any facilities that can be used as a weapons generation facility, especially that of nuclear capacity. There are no workarounds to building, storing, and the maintaining of the armament load out for the B-21 without the initiative of a weapons generation facility at Ellsworth Air Force Base.</p> <p>IMPACT IF NOT PROVIDED: No facilities currently exist to handle the B-21 requirements. The stand-up of a nuclear capable mission at Ellsworth Air Force Base is a strategic based decision. The bed down of the new B-21 bomber at Ellsworth Air Force Base is the platform to project this strategic mission. If this project is not funded, the storage and maintenance of weapons will not be feasible at Ellsworth Air Force Base. Lack of adequate weapons storage and maintenance facilities at Ellsworth Air Force Base will prevent diversification of the Air Force's nuclear mission, placing continued strain on the current nuclear bomber force. All areas of the facility are required for it to operate as a nuclear certified facility. It is not possible to</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA		4. PROJECT TITLE: B-21 WEAPONS GENERATION FACILITY, INC 1	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER FXBM225791	8. PROJECT COST (\$000) AUTH: 251,000 APPRO: 50,000

separate the facility into complete and usable phases.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084 - Facility Requirements. This project will comply with Department of Defense S-5210.41M. Ammunitions and Explosives Safety Standards will comply with DoD Manual 6055.09 Vol 2. All construction will meet requirements for essential facility system nuclear design certification per Air Force Manual 91-118, Air Force Manual 91-119, and Facilities Criteria 04-420-07F. The project storage, maintenance and admin area will comply with Department of Defense Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives per Department of Defense Manual 5100.76-M. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. A waiver to an Economic Analysis has been approved for this project. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100 year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.

Base Civil Engineer: (605) 385-2658.

Special Weapon Maintenance Shop: 5,694 SM = 61,290 Square Feet;

Alert Fire Team Facility: 510 SM = 5,490 Square Feet;

Entry Control Building: 646 SM = 6,953 Square Feet;

Generator Building: 149 SM = 1,604 Square Feet;

Water Fire Pumping Station: 301 SM = 3,240 Square Feet;

Fence Interior: 576 Linear Meters = 1,890 Linear Feet.

JOINT USE CERTIFICATION: The facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA		4. PROJECT TITLE: B-21 WEAPONS GENERATION FACILITY, INC 1	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER FXBM225791	8. PROJECT COST (\$000) AUTH: 251,000 APPRO: 50,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status			
(a) Type of Design	DESIGN-BID-BUILD		
(b) Date Design Started	29-JUL-19		
(c) Parametric Cost Estimates Used to Develop Costs	YES		
(d) Percent Complete as of 01 Jan 2022	100%		
(e) Date 35% Designed	15-APR-20		
(f) Date Design Complete	19-OCT-21		
(g) Energy Study/Life Cycle analysis was/will be performed	YES		
(2) Basis			
(a) Standard or Definitive Design Used	NO		
(b) Where Design Was Previously Used	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e)	(\$000)		
(a) Production of Plans and Specifications	15,060		
(b) All Other Design Costs	7,530		
(c) Total	22,590		
(d) Contract	18,825		
(e) In-House	3,765		
(4) Construction Contract Award	23-FEB		
(5) Construction Start	23-FEB		
(6) Construction Completion	26-FEB		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPRO	OR REQUESTED	(\$000)
FURNISHINGS, FIXTURES & EQUIPMENT	3080	2024	2,292
UPS SYSTEM	3080	2024	1,954
ELECTRONIC SECURITY EQUIPMENT AIR	3010	2024	44,744
COMPRESSORS	3400	2024	73
ISO TEC BOOTH/TURNSTILES	3080	2024	1,080
CFCI CONVERTERS	3080	2024	2,137

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA		4. PROJECT TITLE: B-21 WEAPONS GENERATION FACILITY, INC 1	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER FXBM225791	8. PROJECT COST (\$000) AUTH: 251,000 APPRO: 50,000

c. Title, Authorization, and Appropriation Summary:

	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2023 Budget Request	251,000	50,000	50,000
Future Request	-----	201,000	<u>201,000</u>
Total	251,000		251,000

**Project: B-21 Weapons Generation Facility, Inc 1, Ellsworth AFB, SD**

All Cost in thousands

**Project Spending Plan**

As of: 1-Sep-20

All Cost in thousands

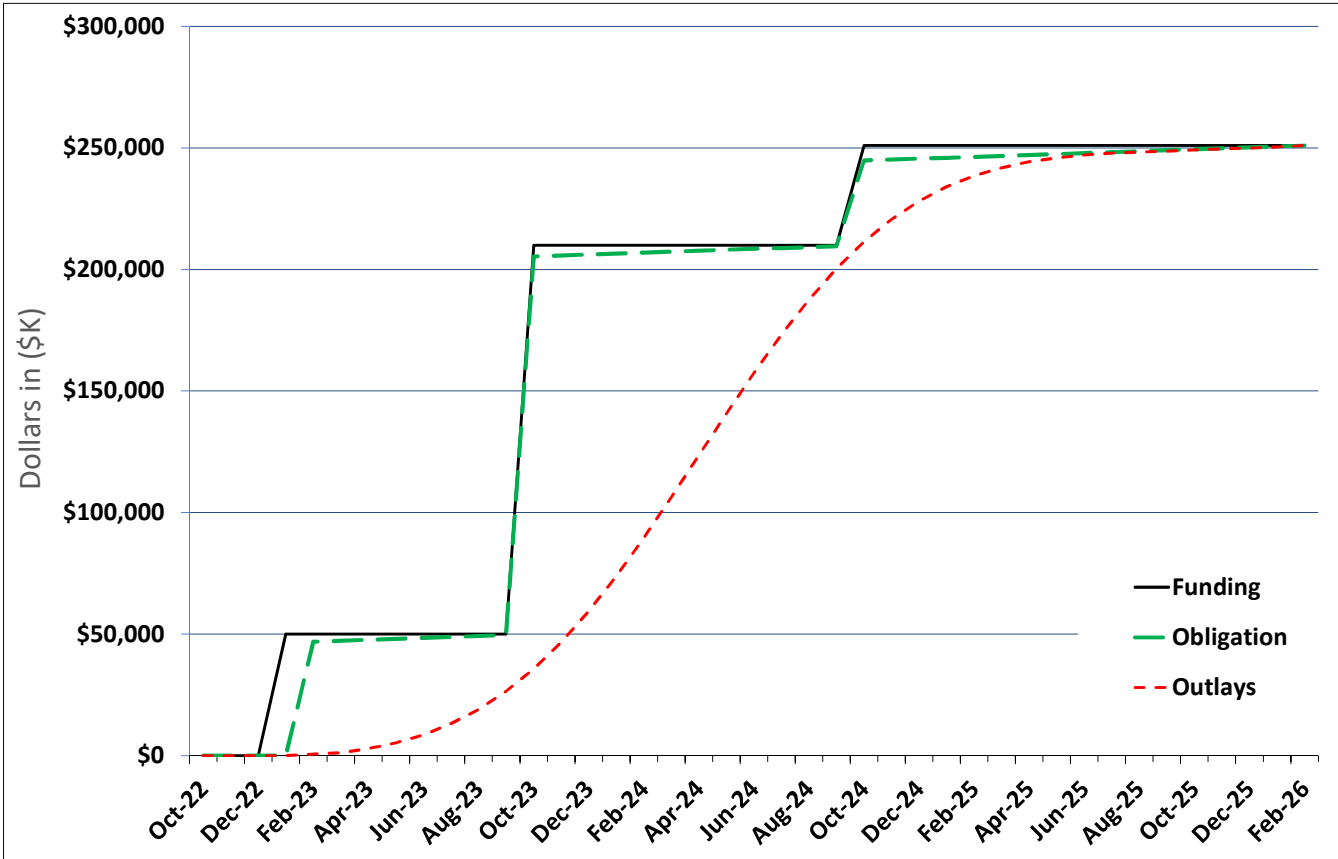
Chart Begin Oct-22	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Month	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-22	-	-	-	-	-	-
Nov-22	-	-	-	-	-	-
Dec-22	-	-	-	-	-	-
Jan-23	50,000	50,000	-	-	-	-
Feb-23	-	50,000	46,904	46,904	571	571
Mar-23	-	50,000	387	47,291	575	1,146
Apr-23	-	50,000	387	47,678	1,687	2,833
May-23	-	50,000	387	48,065	2,412	5,244
Jun-23	-	50,000	387	48,452	3,346	8,591
Jul-23	-	50,000	387	48,839	4,507	13,098
Aug-23	-	50,000	387	49,226	5,893	18,991
Sep-23	-	50,000	387	49,613	7,478	26,469
Oct-23	160,000	210,000	155,743	205,356	9,211	35,680
Nov-23	-	210,000	387	205,743	11,014	46,694
Dec-23	-	210,000	387	206,130	12,782	59,476
Jan-24	-	210,000	387	206,517	14,399	73,875
Feb-24	-	210,000	387	206,904	15,745	89,620
Mar-24	-	210,000	387	207,291	16,711	106,331
Apr-24	-	210,000	387	207,678	17,216	123,548
May-24	-	210,000	387	208,065	17,216	140,764
Jun-24	-	210,000	387	208,452	16,711	157,475
Jul-24	-	210,000	387	208,839	15,745	173,220
Aug-24	-	210,000	387	209,226	14,399	187,619
Sep-24	-	210,000	387	209,613	12,782	200,401
Oct-24	41,000	251,000	35,195	244,808	11,014	211,415
Nov-24	-	251,000	387	245,195	9,211	220,626
Dec-24	-	251,000	387	245,582	7,478	228,104
Jan-25	-	251,000	387	245,969	5,893	233,997
Feb-25	-	251,000	387	246,356	4,507	238,504
Mar-25	-	251,000	387	246,743	3,346	241,851
Apr-25	-	251,000	387	247,130	2,412	244,262
May-25	-	251,000	387	247,517	1,687	245,949
Jun-25	-	251,000	387	247,904	1,145	247,094
Jul-25	-	251,000	387	248,291	755	247,849
Aug-25	-	251,000	387	248,678	483	248,332
Sep-25	-	251,000	387	249,065	300	248,632
Oct-25	-	251,000	387	249,452	511	249,143
Nov-25	-	251,000	387	249,839	444	249,587
Dec-25	-	251,000	387	250,226	403	249,990
Jan-26	-	251,000	387	250,613	379	250,369
Feb-26	-	251,000	387	251,000	631	251,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2023.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in Feb 2023 and contract completion Feb 2026; duration 36 months.

# B-21 Weapons Generation Facility, Inc 1, Ellsworth AFB, SD



<b>1. COMPONENT</b> AIR FORCE			<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE (YYYYMMDD)</b> 20220308			
<b>3. INSTALLATION AND LOCATION</b> ARNOLD AIR FORCE BASE, TENNESSEE						<b>4. COMMAND</b> AIR FORCE MATERIEL COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 0.92			
<b>6. PERSONNEL</b>			<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
			<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF 30-SEP-21			40	75	400	0	0	0	10	200	1900	2,625
b. END FY			45	85	450	0	0	0	8	210	1950	2,748
<b>7. INVENTORY DATA (\$000)</b>												
a. TOTAL ACREAGE										38,862		
b. INVENTORY TOTAL AS OF 30-SEP-21										3,659,997.00		
c. AUTHORIZATION NOT YET IN INVENTORY										0.00		
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										38,000.00		
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00		
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00		
g. REMAINING DEFICIENCY										31,600.00		
h. GRAND TOTAL										3,723,597.00		
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>												
<b>a. CATEGORY</b>						<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>				
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>				<b>(3) SCOPE</b>				<b>(1) START</b>	<b>(2) COMPLETE</b>		
311-115	ARC HEATER TEST FACILITY, DRAGON FIRE				6,040 SM		38,000		05/21	08/22		
<b>9. FUTURE PROJECTS</b>												
<b>10. MISSION OR MAJOR FUNCTIONS</b>												
<p>Arnold Air Force Base is currently the largest, most advanced and professional flight simulation center in the world. The base operates the Arnold Engineering Development Complex (AEDC), which has more than 68 aerodynamic and propulsion wind tunnels, rocket and turbine engine test cells, space environmental chambers, arc heaters, ballistic ranges and other specialized units located in eight states. Many of the complex's test units have capabilities unmatched elsewhere in the United States; some are unique in the world. AEDC is one of three installations which are part of the Air Force Test Center (AFTC), one of six subordinate commands of the Air Force Materiel Command organization and an important national resource.</p>												
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>												
N/A												

1. COMPONENT AIR FORCE		FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022	
3. INSTALLATION AND LOCATION ARNOLD AIR FORCE BASE ARNOLD AF SITE 1 TENNESSEE			4. PROJECT TITLE: ARC HEATER TEST FACILITY, DRAGON FIRE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 311-115	7. PROJECT NUMBER ANZY219011	8. PROJECT COST (\$000) 38,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES					21,583
Control Building (311-115)		SM	518	\$5,600	(2,901)
Test Bay Building (311-115)		SM	2,048	\$5,605	(11,479)
Water Building (845-362)		SM	1,032	\$3,298	(3,404)
Maint./Warehouse Bldg(311-115)		SM	1,381	\$2,370	(3,273)
Cybersecurity of facility-related control systems		LS			(526)
SUPPORTING FACILITIES					11,581
Site Preparation		LS			(1,938)
Site Improvements		LS			(541)
Cooling Water Piping		LS			(2,980)
Potable Water & Firemain		LS			(493)
Sanitary Sewer		LS			(291)
Storm Sewer		LS			(186)
Concrete Pavements & Pads		LS			(1,718)
Electrical		LS			(3,307)
Natural Gas		LS			(127)
SUBTOTAL					33,164
CONTINGENCY (5%)					1,658
TOTAL CONTRACT COST					34,822
SUPERVISION, INSPECTION, AND OVERHEAD (5.7%)					1,985
DESIGN/BUILD-DESIGN COST (4%)					1,327
TOTAL REQUEST					38,134
TOTAL REQUEST (ROUNDED)					38,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(78,000)



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ARNOLD AIR FORCE BASE ARNOLD AF SITE 1 TENNESSEE		4. PROJECT TITLE: ARC HEATER TEST FACILITY, DRAGON FIRE	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 311-115	7. PROJECT NUMBER ANZY219011	8. PROJECT COST (\$000) 38,000
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a New Test Facility Complex comprising approximately 65,000 square feet of cumulative building structures including: Control Room Building; Test Bay Building; Water Building; and Maintenance Building. Supporting facilities include vehicle access roads, parking, site lighting, landscaping, and reconfiguration of adjacent waterway terminating into the AEDC retention reservoir to facilitate elimination of test facility complex discharge cooling water.</p> <p>The Control Room Building is 5,580 square feet of conditioned space housing control room support functions for the testing operation. Construction materials include reinforced concrete foundations, pre-engineered metal building frame, insulated metal sandwich panels, and a standing seam metal roof. Raised access flooring is provided in office spaces as needed. Secure construction is provided at controlled area perimeter, and access control is provided at doors as required. The facility shall be equipped with a fire alarm system, and protected throughout with a fire suppression system.</p> <p>The Test Bay Building will be 22,047 square feet of heated and ventilated space with two 60' x 150' bays and a single 60' x 60' bay, divided by 2-hour fire rated reinforced concrete walls. It will be constructed of reinforced concrete foundations, structural steel frame, insulated metal sandwich panels, and a standing seam metal roof. An overhead bridge crane and 7' x 20' utility pits are provided in each bay. The facility shall be equipped with a fire alarm system, and protected throughout with a fire suppression system.</p> <p>The Water Building is 11,107 square feet of heated and ventilated support space for testing operations constructed of reinforced concrete foundations, structural steel frame, insulated sandwich panels, and a standing seam metal roof. An overhead bridge crane and a 6,549 square foot mezzanine are also included. The facility shall be equipped with a fire alarm system, and protected throughout with a fire suppression system.</p> <p>The Maintenance Building is 14,867 square feet with three bays for the primary function of heater build-up and assembly. Open maintenance areas, shop areas, and parts storage are heated and ventilated only, and other admin/support spaces are fully conditioned. It is constructed of reinforced concrete foundations, a pre-engineered metal building frame, insulated metal sandwich panels, and a standing seam metal roof. 400 square feet of hardened construction for tornado shelter space is provided within this building. The facility shall be equipped with a fire alarm system, and protected throughout with a fire suppression system.</p> <p>Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01.</p> <p>Air Conditioning: 37 Tons</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ARNOLD AIR FORCE BASE ARNOLD AF SITE 1 TENNESSEE		4. PROJECT TITLE: ARC HEATER TEST FACILITY, DRAGON FIRE	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 311-115	7. PROJECT NUMBER ANZY219011	8. PROJECT COST (\$000) 38,000
11. REQUIREMENT: 6,040SM (65,000SF) ADEQUATE: 0 SM SUBSTANDARD: 0 SM <u>PROJECT:</u> Arc Heater Test Facility, Dragon Fire			
<p><u>REQUIREMENT:</u> The Test Resource Management Center in conjunction the Central Test and Evaluation Investment Program (CTEIP) office of the Department of Defense has identified a national need for additional arc jet testing facilities. Arnold Engineering Development Complex (AEDC) has been chosen as the location for expanding this type of test capability. The project will install the necessary facilities to meet that additional testing requirement. The project will install three arc heater bays and facilities to house power, air, water, exhaust and maintenance equipment required to operate and support the heaters. This project will approximately triple AEDC's current arc jet testing capacity. This effort focuses on testing efficiency and throughput.</p>			
<p><u>CURRENT SITUATION:</u> AEDC's existing High Temperature Laboratory (HTL) is the only national arc heater capability that can simulate hypersonic velocities up to 22k-ft/sec at altitudes below 200k-ft. This is a critical envelope for materials science testing and for weapons development for hypersonic interceptors, intermediate boost glide vehicles, strategic boost glide vehicles, and next generation intercontinental ballistic missiles. The demand for the type of testing provided in the HTL is three times the current capacity. Test demand has surpassed current capacity in support of weapons development programs at a time when adversaries are fielding systems more capable than our own. In addition, upgraded arc heater test cells are needed to test more realistic mission scenarios such as flight trajectory simulation for longer test periods.</p>			
<p><u>IMPACT IF NOT PROVIDED:</u> Without a facility to support additional arc heater testing capacity that can also grow the testing capabilities, the backlog for the type of testing provided by the HTL will continue to grow, and needed testing will not be performed. The result will be the fielding of sub-optimal weapon systems that have utilized higher risk flight testing to collect data at greater overall expense. Adversaries will likely continue to expand upon their lead in the field of hypersonic weapon capabilities without an expanded National Capability for testing.</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION ARNOLD AIR FORCE BASE ARNOLD AF SITE 1 TENNESSEE		4. PROJECT TITLE: ARC HEATER TEST FACILITY, DRAGON FIRE	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 311-115	7. PROJECT NUMBER ANZY219011	8. PROJECT COST (\$000) 38,000

ADDITIONAL:

This project meets the applicable criteria/scope specified in Department of the Air Force Manual 32-1084, "Standard Facility Requirements".

The Economic Analysis has been completed and supported the new construction path forward.

This design shall conform to criteria established in the Air Force Corporate Facilities Standards, but will not employ a standard design because there is no Air Force standard facility design for this project, and there is no applicable standard design from U.S. Army Corps of Engineers.

Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable.

This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.

Control Building: 518 Square Meters = 5,580 Square Feet;  
 Test Bay Building: 2,048 Square Meters = 22,047 Square Feet;  
 Water Building: 1,032 Square Meters = 11,107 Square Feet;  
 Maintenance/Warehouse Building: 1,381 Square Meters = 14,867 Square Feet.

Base Civil Engineer commercial phone number: 931-454-7916

JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.

1. COMPONENT AIR FORCE		FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022	
3. INSTALLATION AND LOCATION ARNOLD AIR FORCE BASE ARNOLD AF SITE 1 TENNESSEE			4. PROJECT TITLE: ARC HEATER TEST FACILITY, DRAGON FIRE		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 311-115	7. PROJECT NUMBER ANZY219011	8. PROJECT COST (\$000) 38,000	
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status:					
(a) Type of Design					Design-Build
(b) Date Design Started					05-MAY-21
(c) Parametric Cost Estimates Used to develop costs					YES
(d) Percent Complete as of 01 JAN 2022					35%
(e) Date 35% Designed					15-JUL-21
(f) Date Design Complete					30-AUG-22
(g) Energy Study/Life-Cycle analysis was/will be performed					YES
(2) Basis:					
(a) Standard or Definitive Design					NO
(b) Where Design Was Most Recently Used					
(3) Total Cost (c) = (a) + (b) or (d) + (e)					(\$000)
(a) Production of Plans and Specifications					2,340
(b) All Other Design Costs					1,170
(c) Total					3,510
(d) Contract					3,210
(e) In-House					300
(4) Construction Contract Award					23-FEB
(5) Construction Start					23-APR
(6) Construction Completion					25-JUN
b. Equipment associated with this project provided from other appropriations:					
		FISCAL YEAR			
		APPROPRIATED		COST	
EQUIPMENT NOMENCLATURE		PROCURING APPROP		OR REQUESTED (\$000)	
ARC HEATERS		3600		2023 22,000	
DATA MANAGEMENT SYSTEMS		3600		2023 17,000	
COOLING WATER SYSTEMS		3600		2023 39,000	
c. Pursuant to the FY 2016 NDAA, Section 2803, FY 2017 NDAA, Section 2806, and 2019 NDAA, Section 2808, endorsement by more than one military department for this project is provided in the FY23 3600 budget exhibit under PE 64759F					

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20220308				
<b>3. INSTALLATION AND LOCATION</b> JOINT BASE SAN ANTONIO, TEXAS					<b>4. COMMAND</b> AIR EDUCATION AND TRAINING COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 0.89			
<b>6. PERSONNEL</b>		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-SEP-21	3,089	9,500	16,387	858	10,335	39	4,476	17,538	7,963	70,185
b. END FY		3,119	9,486	16,302	975	6,821	42	4,514	13,732	7,862	62,853
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE										45,360	
b. INVENTORY TOTAL AS OF 30-SEP-21										12,169,489.00	
c. AUTHORIZATION NOT YET IN INVENTORY										590,600.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										0.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										78,000.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										5,654.00	
g. REMAINING DEFICIENCY										1,322,700.00	
h. GRAND TOTAL										14,166,443.00	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE					(3) SCOPE		(1) START	(2) COMPLETE		
721-311	BMT Recruit Dormitory 7, Inc 2			20,221 SM		90,000	02/16	12/20			
<b>9. FUTURE PROJECTS</b>											
773 BMT Chapel For America's Airmen (8,081 SM/\$78,000)											
218-852 T-7A ADAL Egress Facility B38 (347 SM/\$5,654)											
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
The 502nd Air Base Wing (ABW) is the host wing for Joint Base San Antonio (JBSA) which is comprised of three primary locations; JBSA-Lackland, JBSA-Randolph, JBSA-Fort Sam Houston as well as eight other operating locations. The 502 ABW provides installation support services to more than 41 Air Force Mission Partners, 30 US Army Mission Partners, 6 US Navy Mission Partners, US Marine Corps Mission Partners, US Coast Guard, and 15 US Governmental Organizations Mission Partners, that accomplish diverse training, flying, cyber, intelligence, medical and installations missions every day.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>											
N/A											

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AIR FORCE BASE SITE # 1 TEXAS			4. PROJECT TITLE BMT Recruit Dormitory 7, Inc 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 721-311	7. PROJECT NUMBER MPLS200361R7	8. PROJECT COST(\$000) AUTH: 0 APP: 90,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				101,774
DORMITORY, RECRUITS (721-311)	SM	20,221	4,032	(81,531)
AETC TECHNICAL TRAINING SUPPORT (171-627)	SM	1,261	3,738	(4,714)
TRAINING AIDS (179-371)	EA	1	7,467,000	(7,467)
ATHLETIC FIELD, TRACK (750-177)	EA	1	4,241,000	(4,241)
OVERHEAD PROTECTION (145-921)	SM	465	3,101	(1,442)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(2,379)
SUPPORTING FACILITIES				24,919
SPECIAL DRILLED PIER FOUNDATION	LS			(2,421)
SITE IMPROVEMENTS	LS			(2,432)
UTILITIES	LS			(3,543)
PRIVATIZED UTILITY CONNECTION FEE	LS			(559)
PAVEMENTS	LS			(3,802)
COMMUNICATIONS SUPPORT	LS			(341)
QUADRANGLE	LS			(5,304)
DEMOLITION	SM	20,051	325	(6,517)
SUBTOTAL				126,693
CONTINGENCY (5.0%)				6,335
TOTAL CONTRACT COST				133,028
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				7,583
TOTAL REQUEST				140,611
TOTAL REQUEST (ROUNDED)				141,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(2,805)
10. Description of Proposed Construction: Construct a Basic Military Training Recruit Dormitory complex utilizing conventional design and construction methods to accommodate the mission of the facility. The facility will be multi-story and will include a drilled pier foundation, concrete floor slabs, structural steel frame, masonry walls, standing seam metal roof, and an elevator. Areas include administrative support, open-bay dormitories, central latrines, drill pad, physical training areas, weapons cleaning pavilion, quadrangle, and storage. The project will include all necessary utilities, site improvements, pavements, communications support				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AIR FORCE BASE SITE # 1 TEXAS			4. PROJECT TITLE BMT Recruit Dormitory 7, Inc 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 721-311	7. PROJECT NUMBER MPLS200361R7	8. PROJECT COST(\$000) AUTH: 0 APP: 90,000	
<p>infrastructure, and all necessary supporting work for a complete and usable facility. The project demolishes building 9210 (20,051 square meters). The demolition work will include testing/removal of asbestos and lead-based paint and any work needed to mitigate potential hazards. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01 General Building Requirements. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01.</p> <p>Air Conditioning: 450 Tons</p>				
<p>11. Requirement: 20,221 SM Adequate: 0 SM Substandard: 20,051 SM PROJECT: BMT Recruit Dormitory 7</p> <p>REQUIREMENT: A major Air Force objective is to provide recruits with facilities conducive to their proper housing, dining, and training. Properly sized, sited, designed, and furnished facilities are essential to successfully train future Air Force enlisted personnel. To support current accession rates, a total of 8 Recruit Housing &amp; Training facilities are required to accomplish the Basic Military Training mission at Lackland Air Force Base. This project provides the seventh Airmen Training Complex dormitory building in the "Recruit, House, and Train" Replacement program. This facility will house a Basic Military Training Squadron including dormitory and administrative space. This project is designed to accommodate 1,248 recruits; 48 recruits per flight, 24 flights per squadron with 4 reserve bed spaces per flight in order to address surges, gender separation and injured recruits. This project will also construct a new drill pad, running track, exercise areas, training aids, and a pavilion for weapons cleaning, storage, and latrines. The requirement is a 37th Training Wing tenant driven project.</p> <p>CURRENT SITUATION: The Basic Military Training program, and Lackland Air Force Base form an initial, but lasting impression of the Air Force to all new recruits. Existing 20,051 square meters Recruit, House, and Train facility, originally constructed in the 1969, was designed to provide housing, dining, classrooms, and other training space in one facility in order to develop teamwork, discipline, and esprit de corps among the recruits. The facility is outdated and is inadequate to support current and planned accessions of Air Force Active Duty, Reserve, and Air National Guard personnel considering future force structure and strength. Due to deterioration, age, and exceeding its useful life, the facility requires significant Operation and Maintenance capital to keep them operational. Available training hours, training quality, cohesiveness, and esprit de</p>				

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3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AIR FORCE BASE SITE # 1 TEXAS			4. PROJECT TITLE BMT Recruit Dormitory 7, Inc 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 721-311	7. PROJECT NUMBER MPLS200361R7	8. PROJECT COST(\$000) AUTH: 0 APP: 90,000	
<p>corps are degraded as a direct result of decentralized Basic Military Training facilities and functions. Basic Military Training has difficulty accommodating summer recruit surges while accomplishing maintenance, repair and renovation projects of the aging, inadequate, and substandard facility. Recruits do not have the minimum standard square footage during surge and overhaul periods forcing as many as 65 recruits per flight in facilities designed for 50 recruits per flight. This further stresses infrastructure systems and accelerates deterioration. The fire protection system is inadequate and obsolete. The mechanical, electrical, and lighting systems and interior finishes are at the end of their useful lives and require replacement.</p> <p>IMPACT IF NOT PROVIDED: One of Lackland Air Force Base's primary missions is to educate and train every Basic Military Training enlisted recruit when entering military service in the United States Air Force. Without quality Basic Military Training programs and state-of-the-art, master-planned facilities, the Air Force will have difficulty recruiting, training, and retaining new recruits. Basic Military Training schedules will continue to be stretched to critical levels that risk mission loss. The facility will continue to age and will require increasingly more capital to keep it operational. During surge periods, or when the existing facility is being repaired, maintained, or overhauled, flight sizes will increase and recruits will continue to live in space with less than the minimum standard square footage per recruit. Significant capital must be spent to convert the existing facility to meet current antiterrorism/force protection criteria.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard design from United States Army Corps of Engineers. However, this project will be a modified site adapt of the Basic Military Training Dormitory design internal to Joint Base San Antonio. All reasonable alternatives were considered during the development of this project to include: add/alter and new construction. An approved Economic Analysis determined that New Construction is the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This</p>				



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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 721-311	7. PROJECT NUMBER MPLS200361R7	8. PROJECT COST(\$000) AUTH: 0 APP: 90,000	
<p>includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. Supporting facility costs exceed 25% of primary facility cost due to required special foundations, privatized utilities and the demolition of two Vietnam War era Recruit, House, and Train facilities. This project does not fall within or partly within the 100-year flood plain.</p> <p>502d Civil Engineer Group, Base Civil Engineer: (210) 671-2977</p> <p>Dormitory, Recruits: 20,221 SM = 217,657 Square Feet;</p> <p>AETC Technical Training Support: 1,261 SM = 13,573 Square Feet;</p> <p>Overhead Protection: 465 SM = 5,005 Square Feet;</p> <p>Demolition: 20,051 SM = 215,827 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 721-311	7. PROJECT NUMBER MPLS200361R7	8. PROJECT COST(\$000) AUTH: 0 APP: 90,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	26-FEB-16		
(c) Parametric Cost Estimates Used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2022	100%		
(e) Date 35% Designed	30-APR-20		
(f) Date Design Complete	11-DEC-20		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive 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	8,460		
(b) All Other Design Costs	4,230		
(c) Total	12,690		
(d) Contract	10,575		
(e) In-house	2,115		
(4) Construction Contract Award	22-SEP		
(5) Construction Start	22-DEC		
(6) Construction Completion	26-APR		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
EQUIPMENT NOMENCLATURE	PROCURING APPROP	APPROPRIATED	COST
WALL LOCKERS AND FURNISHINGS	3080	OR REQUESTED	(\$000)
AUTOMATED DATA PROCESSING	3080	2023	2,611
		2023	194

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AIR FORCE BASE SITE # 1 TEXAS		4. PROJECT TITLE BMT Recruit Dormitory 7, Inc 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 721-311	7. PROJECT NUMBER MPLS200361R7	8. PROJECT COST(\$000) AUTH: 0 APP: 90,000

c. Title, Authorization, and Appropriation Summary:

FY 2022 Title is "BMT Recruit Dormitory 7"

FY 2023 Proposed Title Change is "BMT Recruit Dormitory 7, Inc 2"

	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2022 Enacted	141,000	40,000	100,000
FY2023 Budget Request	-	90,000	90,000
<b>Total</b>	<b>141,000</b>		<b>190,000</b>

**Project: BMT Recruit Dormitory 7, Inc 2, JBSA Lackland AFB, TX**

**Project Spending Plan**

As of: 16-Mar-22

All Cost in thousands (\$000)

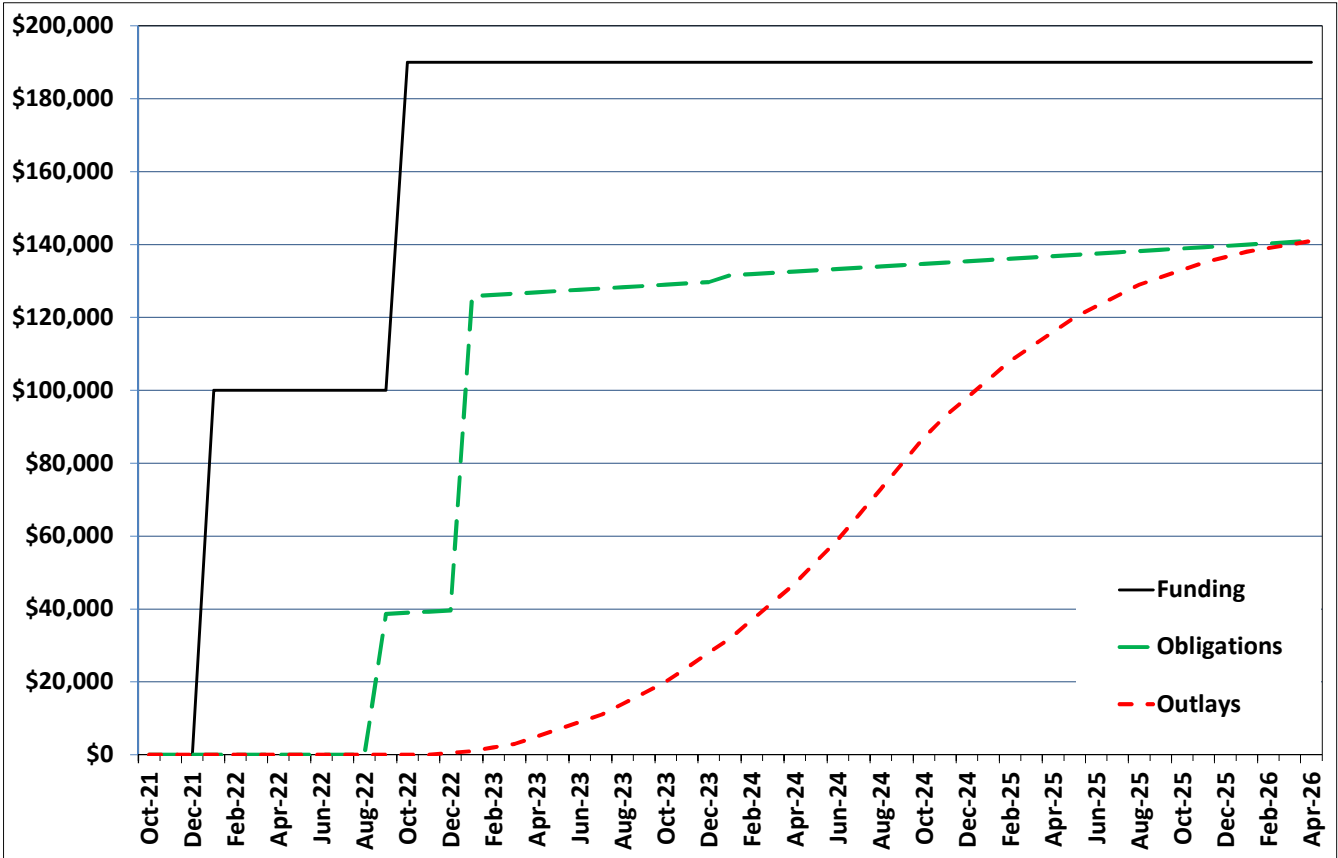
Chart Begin Oct-21	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-21	-	-	-	-	-	-
Nov-21	-	-	-	-	-	-
Dec-21	-	-	-	-	-	-
Jan-22	100,000	100,000	-	-	-	-
Feb-22	-	100,000	-	-	-	-
Mar-22	-	100,000	-	-	-	-
Apr-22	-	100,000	-	-	-	-
May-22	-	100,000	-	-	-	-
Jun-22	-	100,000	-	-	-	-
Jul-22	-	100,000	-	-	-	-
Aug-22	-	100,000	-	-	-	-
Sep-22	-	100,000	38,604	38,604	-	-
Oct-22	90,000	190,000	349	38,953	-	-
Nov-22	-	190,000	349	39,302	-	-
Dec-22	-	190,000	349	39,651	500	500
Jan-23	-	190,000	86,161	125,812	500	1,000
Feb-23	-	190,000	349	126,161	1,000	2,000
Mar-23	-	190,000	349	126,510	1,000	3,000
Apr-23	-	190,000	349	126,859	2,000	5,000
May-23	-	190,000	349	127,208	2,000	7,000
Jun-23	-	190,000	349	127,557	2,000	9,000
Jul-23	-	190,000	349	127,906	2,000	11,000
Aug-23	-	190,000	349	128,255	3,000	14,000
Sep-23	-	190,000	349	128,604	3,000	17,000
Oct-23	-	190,000	349	128,953	3,000	20,000
Nov-23	-	190,000	349	129,302	4,000	24,000
Dec-23	-	190,000	349	129,651	4,000	28,000
Jan-24	-	190,000	1,926	131,577	4,000	32,000
Feb-24	-	190,000	349	131,926	5,000	37,000
Mar-24	-	190,000	349	132,275	5,000	42,000
Apr-24	-	190,000	349	132,624	5,000	47,000
May-24	-	190,000	349	132,973	6,000	53,000
Jun-24	-	190,000	349	133,322	6,000	59,000
Jul-24	-	190,000	349	133,671	7,000	66,000
Aug-24	-	190,000	349	134,020	7,000	73,000
Sep-24	-	190,000	349	134,369	7,000	80,000
Oct-24	-	190,000	349	134,718	7,000	87,000
Nov-24	-	190,000	349	135,067	6,000	93,000
Dec-24	-	190,000	349	135,416	5,000	98,000
Jan-25	-	190,000	349	135,765	5,000	103,000
Feb-25	-	190,000	349	136,114	5,000	108,000
Mar-25	-	190,000	349	136,463	4,000	112,000
Apr-25	-	190,000	349	136,812	4,000	116,000
May-25	-	190,000	349	137,161	4,000	120,000
Jun-25	-	190,000	349	137,510	3,000	123,000
Jul-25	-	190,000	349	137,859	3,000	126,000
Aug-25	-	190,000	349	138,208	3,000	129,000
Sep-25	-	190,000	349	138,557	2,000	131,000
Oct-25	-	190,000	349	138,906	2,000	133,000
Nov-25	-	190,000	349	139,255	2,000	135,000
Dec-25	-	190,000	349	139,604	1,500	136,500
Jan-26	-	190,000	349	139,953	1,500	138,000
Feb-26	-	190,000	349	140,302	1,000	139,000
Mar-26	-	190,000	349	140,651	1,000	140,000
Apr-26	-	190,000	349	141,000	1,000	141,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2022.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award date of Sep 2022, construction start: Dec 2022, contract completion: Apr 2026, Duration 43 months

**BMT Recruit Dormitory 7, Inc 2, JBSA Lackland AFB, TX**



<b>1. COMPONENT</b> AIR FORCE		<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20220308				
<b>3. INSTALLATION AND LOCATION</b> HILL AIR FORCE BASE, UTAH				<b>4. COMMAND</b> AIR FORCE MATERIEL COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.05				
<b>6. PERSONNEL</b>		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-SEP-21	530	3,345	11,803	0	0	0	156	1,241	397	17,472
b. END FY		535	3,350	11,679	0	0	0	155	1,240	375	17,334
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE								962,090			
b. INVENTORY TOTAL AS OF 30-SEP-21								5,196,190.00			
c. AUTHORIZATION NOT YET IN INVENTORY								187,000.00			
d. AUTHORIZATION REQUESTED IN THIS PROGRAM								84,000.00			
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM								441,831.00			
f. PLANNED IN NEXT THREE PROGRAM YEARS								181,745.00			
g. REMAINING DEFICIENCY								2,667,100.00			
h. GRAND TOTAL								8,757,866.00			
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE		(3) SCOPE			(1) START	(2) COMPLETE				
141-762	GBSD ORGANIC SOFTWARE SUSTAIN CTR, INC 3		16,986 SM		95,000	03/20	07/21				
141-764	GBSD TECHNOLOGY AND COLLABORATION CENTER		7,292 SM		84,000	12/20	11/21				
<b>9. FUTURE PROJECTS</b>											
211-116 T-7A Depot Maintenance Complex (26,756 SM / \$185,318)											
211-116 F-35A Maintenance Facility Phase 1 (28,524 SM / \$146,579)											
211-116 F-35A Composite Repair & Training Fac, Phase 1 (20,089 SM / \$109,934)											
211-152 F-35A Canopy Repair Facility (6,968 SM / \$66,745)											
211-159 F-35A Radar Cross Section Test Facility (5,556 SM / \$115,000)											
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
Hill Air Force Base is home to Air Force Materiel Command's 75th Air Base Wing, host wing, providing installation support for the Ogden Air Logistics Complex, Air Force Life Cycle Management Center, Air Force Nuclear Weapons Center, Air Force active duty 388th Fighter Wing (F-35A) and Reserve 419th Fighter Wing with more than 50 mission partners. Air Force Life Cycle Management Center provides the latest in command and control and information systems for various weapons platforms including the F-16, F-35, HH-60, E-3 Airborne Warning and Control System and E-8 Joint Surveillance Target Attack Radar System; an Air Force Research Laboratory research site location for the space vehicles directorate; an air base group and recruiting group. The installation has support responsibility for the operation of the Utah Test and Training Range.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>											
N/A											

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE #1 UTAH		4. PROJECT TITLE GBSD ORGANIC SOFTWARE SUSTAIN CTR, INC 3		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-762	7. PROJECT NUMBER KRSM1071882	8. PROJECT COST (\$000) AUTH: 0 APPR: 95,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				109,156
EMBEDDED SOFTWARE INTEGRATION FAC (141-762)	SM	16,986	4,193	(71,222)
ICD 705 SCIF PREMIUM	LS			(18,931)
VEHICLE PARKING GARAGE (853-101)	SM	13,434	1,157	(15,543)
STORAGE IGLOO (422-264)	SM	336	2,375	(798)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(2,662)
SUPPORTING FACILITIES				6,057
SITE IMPROVEMENTS	LS			(311)
PASSIVE FORCE PROTECTION MEASURES	LS			(289)
PAVEMENTS	LS			(1,450)
COMMUNICATIONS	LS			(507)
UTILITIES	LS			(1,500)
ELECTRICAL	LS			(400)
GENERATOR	KW	1,500	700	(1,050)
DEMOLITION	SM	759	725	(550)
SUBTOTAL				115,213
CONTINGENCY (5.0%)				5,761
TOTAL CONTRACT COST				120,974
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				6,896
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				4,609
TOTAL REQUEST				132,478
TOTAL REQUEST (ROUNDED)				132,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(2,823)
10. Description of Proposed Construction: Construct a multi-story secure core facility with steel reinforced concrete footings, foundation, and floor slab. Provide steel frame with insulated masonry walls and insulated roof. Project includes administrative areas and computer labs with raised floors, specialized heating, ventilation, & air condition systems, and emergency back-up power system. Provide for engineering workstations, conference rooms, and required isolated communications rooms. Facility requires Intelligence Community Technical Specification for Intelligence Community Directive/Intelligence Community Standard 705 security construction in most areas. Provide fire detection/suppression, intrusion detection, and all other supporting facilities for a complete and usable software sustainment facility including utilities, pavements, area lighting, site				

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3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE #1 UTAH			4. PROJECT TITLE GBSD ORGANIC SOFTWARE SUSTAIN CTR, INC 3	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-762	7. PROJECT NUMBER KRSM1071882	8. PROJECT COST (\$000) AUTH: 0 APPR: 95,000	
<p>improvements, and security fencing. Construct a multi-level covered parking structure, complete with ramps, stairs, and adequate lighting, in accordance with Air Force Manual 32-1084, Standard Facility Requirements. Additionally, project will relocate munitions storage magazines to clear the construction site, widen a section of Georgia Street, extend/improve Jonquil Street, remove portion of railroad tracks, relocate overhead power line and include an emergency back-up generator, as authorized per Air Force Instruction 32-1062. Project will demolish Building 1566 (423 Square Meters), and two munitions storage igloos, Building 1432 (168 Square Meters) and Building 1411 (168 Square Meters) (Total: 759 Square Meters). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010- 01.</p> <p>Air Conditioning: 750 Tons</p>				
<p>11. Requirement: 16,986 SM      Adequate: 0 SM      Substandard: 0 SM</p> <p>PROJECT: GBSD Organic Software Sustainment Center</p> <p>REQUIREMENT: An adequately sized and configured secure multi-story mixed use organic software sustainment depot facility is required to provide laboratory and administrative support space for the integration, testing, development, and sustainment of highly classified workloads associated with the next generation Intercontinental Ballistic Missile system known as Ground Based Strategic Deterrent. The proposed facility will house approximately 560 military, civilian, and contractor personnel in support of software sustainment.</p> <p>CURRENT SITUATION: Assigned software personnel are currently housed in a temporary facility classified at the secret level. The current facility does not have the capacity to accommodate the growth of the assigned team, is not suitable to be modified for proper security classification and lacks the infrastructure and space necessary for required laboratory support. There is currently no facility on Hill Air Force Base with adequate vacant space at the correct security classification to serve as the required secure location for all planned software sustainment activities.</p> <p>IMPACT IF NOT PROVIDED: Without this project, the deployment of a new weapon system vital to the defense and security of the United States and its allies could be delayed. Assigned software personnel will not be able to support the planned sustainment activities. Failure to effectively own the technical baseline for the Ground Based Strategic Deterrent intercontinental ballistic missile will significantly drive life-cycle software sustainment costs for the program well above affordability levels.</p> <p>ADDITIONAL: This project meets the critical scope specified in Air Force Manual 32-1084, Facility Requirements. All reasonable alternatives were considered during the development of this project to include status quo, repair/renovation, and new construction. New construction is the only viable option to meet this requirement.</p>				



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE #1 UTAH		4. PROJECT TITLE GBSD ORGANIC SOFTWARE SUSTAIN CTR, INC 3	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-762	7. PROJECT NUMBER KRSM1071882	8. PROJECT COST (\$000) AUTH: 0 APPR: 95,000
<p>An economic analysis waiver has been approved. This project does not fall within or partly within the 100-year flood plain. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. Sustainable principles, to include life-cycle cost- effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable.</p> <p>Base Civil Engineer: (801) 777-7505.</p> <p>Embedded Software Integration Fac: 16,986 SM = 182,836 Square Feet;</p> <p>Vehicle Parking Garage: 13,434 SM = 144,602 SF;</p> <p>Storage Igloos: 336 SM = 3,617 Square Feet;</p> <p>Demolition: 759 SM = 8,170 Square Feet.</p> <p>JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other organizations.</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE #1 UTAH		4. PROJECT TITLE GBSD ORGANIC SOFTWARE SUSTAIN CTR, INC 3	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-762	7. PROJECT NUMBER KRSM1071882	8. PROJECT COST (\$000) AUTH: 0 APPR: 95,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design			Design-Build
(b) Date Design Started			18-MAR-20
(c) Parametric Cost Estimates used to develop costs			YES
(d) Percent Complete as of 01 JAN 2022			100%
(e) Date 35% Designed			15-JUL-20
(f) Date Design Complete			29-JUL-21
(g) Energy Study/Life-Cycle analysis was performed			YES
(2) Basis:			
(a) Standard or Definitive 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			7,920
(b) All Other Design Costs			3,960
(c) Total			11,880
(d) Contract			9,900
(e) In-house			1,980
(4) Construction Contract Award			22-APR
(5) Construction Start			22-MAY
(6) Construction Completion			24-OCT
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPRO	OR REQUESTED	(\$000)
FURNITURE	3800	2023	1,581
COMMUNICATION	3080	2023	612
EQUIPMENT VTC/SVTC	3400	2023	180
TELEPHONE EQUIPMENT IT	3080	2023	291
EQUIPMENT	3400	2023	159

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE #1 UTAH		4. PROJECT TITLE GBSD ORGANIC SOFTWARE SUSTAIN CTR, INC 3	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-762	7. PROJECT NUMBER KRSM1071882	8. PROJECT COST (\$000) AUTH: 0 APPR: 95,000
c. Title, Authorization, and Appropriation Summary:			
FY 2021 Title is "GBSD Organic Software Sustainment Center"			
FY 2023 Proposed Title Change is "GBSD Organic Software Sustain Ctr, Inc 3"			
	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY 2021 Enacted	132,000	10,000	10,000
FY 2022 Enacted	-----	31,000	31,000
FY 2023 Budget Request	-----	95,000	<u>95,000</u>
Total	132,000		136,000

**GBSD Organic Software Sustain Ctr, Inc 3, Hill AFB, UT**

**Project Spending Plan**

As of: 9-Mar-22

All Cost in thousands (\$000)

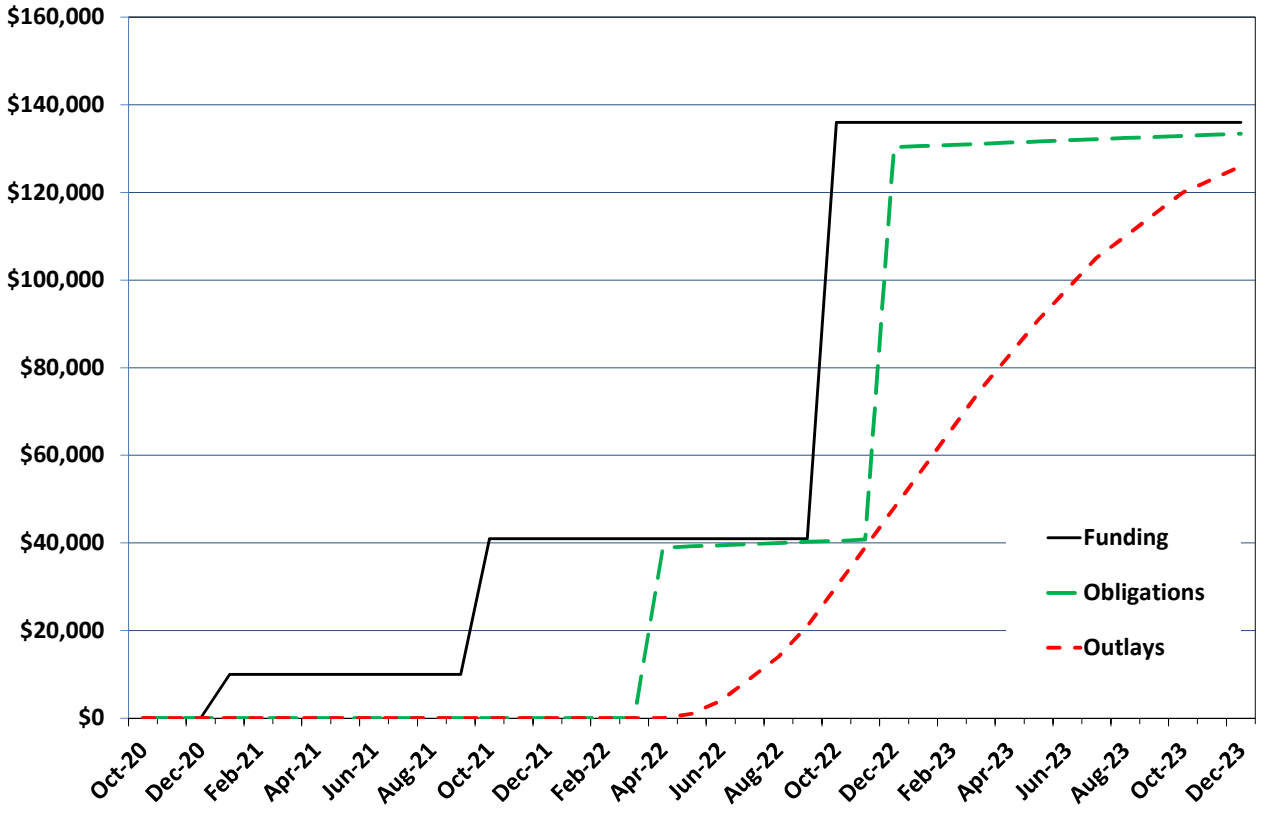
Chart Begin Oct-20	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-20	-	-	-	-	-	-
Nov-20	-	-	-	-	-	-
Dec-20	-	-	-	-	-	-
Jan-21	10,000	10,000	-	-	-	-
Feb-21	-	10,000	-	-	-	-
Mar-21	-	10,000	-	-	-	-
Apr-21	-	10,000	-	-	-	-
May-21	-	10,000	-	-	-	-
Jun-21	-	10,000	-	-	-	-
Jul-21	-	10,000	-	-	-	-
Aug-21	-	10,000	-	-	-	-
Sep-21	-	10,000	-	-	-	-
Oct-21	31,000	41,000	-	-	-	-
Nov-21	-	41,000	-	-	-	-
Dec-21	-	41,000	-	-	-	-
Jan-22	-	41,000	-	-	-	-
Feb-22	-	41,000	-	-	-	-
Mar-22	-	41,000	-	-	-	-
Apr-22	-	41,000	38,936	38,936	-	-
May-22	-	41,000	258	39,194	1,000	1,000
Jun-22	-	41,000	258	39,452	3,000	4,000
Jul-22	-	41,000	258	39,710	5,000	9,000
Aug-22	-	41,000	258	39,968	5,000	14,000
Sep-22	-	41,000	258	40,226	7,000	21,000
Oct-22	95,000	136,000	258	40,484	9,000	30,000
Nov-22	-	136,000	258	40,742	9,000	39,000
Dec-22	-	136,000	89,582	130,324	9,000	48,000
Jan-23	-	136,000	258	130,582	9,000	57,000
Feb-23	-	136,000	258	130,840	9,000	66,000
Mar-23	-	136,000	258	131,098	9,000	75,000
Apr-23	-	136,000	258	131,356	8,000	83,000
May-23	-	136,000	258	131,614	8,000	91,000
Jun-23	-	136,000	258	131,872	7,000	98,000
Jul-23	-	136,000	258	132,130	7,000	105,000
Aug-23	-	136,000	258	132,388	5,000	110,000
Sep-23	-	136,000	258	132,646	5,000	115,000
Oct-23	-	136,000	258	132,904	5,000	120,000
Nov-23	-	136,000	258	133,162	3,000	123,000
Dec-23	-	136,000	258	133,420	3,000	126,000
Jan-24	-	136,000	258	133,678	1,000	127,000
Feb-24	-	136,000	258	133,936	1,000	128,000
Mar-24	-	136,000	258	134,194	1,000	129,000
Apr-24	-	136,000	258	134,452	1,000	130,000
May-24	-	136,000	258	134,710	1,000	131,000
Jun-24	-	136,000	258	134,968	1,000	132,000
Jul-24	-	136,000	258	135,226	1,000	133,000
Aug-24	-	136,000	258	135,484	1,000	134,000
Sep-24	-	136,000	258	135,742	1,000	135,000
Oct-24	-	136,000	258	136,000	1,000	136,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2021.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award date of Apr 2022, Contract completion: Oct 2024; Duration 30 months

GBSD Organic Software Sustain Ctr, Inc 3, Hill AFB, UT



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION HILL AFB UTAH		4. PROJECT TITLE: GBSD TECHNOLOGY AND COLLABORATION CENTER		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-764	7. PROJECT NUMBER KRSM1085758	8. PROJECT COST (\$000) 84,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				57,971
INTEGRATION SUPPORT FACILITY (141-764)	SM	7,292	7,315	(53,341)
ICD-705 PREMIUM	LS			(3,296)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(1,334)
SUPPORTING FACILITIES				15,491
SITE PREPARATION	LS			(2,430)
ROADS, SIDEWALKS, AND PARKING	LS			(5,163)
SITE IMPROVEMENTS	LS			(1,207)
UTILITIES	LS			(2,969)
PRIVATIZED UTILITIES SERVICE & CONNECTION	LS			(3,722)
SUBTOTAL				73,462
CONTINGENCY (5%)				3,673
TOTAL CONTRACT COST				77,135
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				4,397
DESIGN/BUILD - DESIGN COST (4% OF SUBTOTAL)				2,938
TOTAL REQUEST				84,470
TOTAL REQUEST (ROUNDED)				84,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(7,982)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a Ground Based Strategic Deterrent Technology and Collaboration Facility to provide a mix of secure and unclassified office, technical, and collaboration areas sized to accommodate various workgroups and teams necessary to develop and sustain the next generation Intercontinental Ballistic Missile weapon system. New construction will have reinforced concrete footings and foundation, structural steel frame, insulated walls and roof, lightning protection, fire detection/suppression, and intrusion detection. Finished ceiling heights will be typical for administrative and collaboration areas. Designated areas will be constructed to ICD/ICS 705 technical standards. Secure office and some technical areas will have a raised floor system necessary for distributing and flexibility in reconfiguring multiple systems. The project includes a ground-level parking area with curbs and lighting to support both office and collaboration areas, all supporting utilities such as water, storm				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION HILL AFB UTAH		4. PROJECT TITLE: GBSD TECHNOLOGY AND COLLABORATION CENTER		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-764	7. PROJECT NUMBER KRSM1085758	8. PROJECT COST (\$000) 84,000	
<p>water and sanitary sewer, and communications connections, plus roadway improvements with curb, gutter, and sidewalks necessary to integrate the facility into the base system. Additionally, this project includes replacement of existing paved parking places and relocation of overhead power lines necessary to allow for construction on the site. The project includes utilities, site improvements, pavements, communications infrastructure and other necessary support to produce a complete and useable facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 210 tons</p>				
<p>11. REQUIREMENT: 7,292 SM                    ADEQUATE: 0 SM                    SUBSTANDARD: 0 SM</p> <p>PROJECT: Ground Based Strategic Deterrent Technology and Collaboration Center</p> <p>REQUIREMENT: This project provides necessary office, technical, and work-group collaboration space for the Ground Based Strategic Deterrent enterprise whose mission is to design, develop, produce, and deploy a complete integrated Intercontinental Ballistic Missile to replace the current Minuteman III Intercontinental Ballistic Missile over the next two decades. The Ground Based Strategic Deterrent Technology and Collaboration Center will function in tandem with the FY20 Ground Based Strategic Deterrent Mission Integration Facility to house an additional 300 military, civilians, and contractor personnel, plus provide various size, reconfigurable, and flexible workspaces for workgroup and team collaboration space necessary to support the entire Ground Based Strategic Deterrent enterprise population. This purpose-designed, secure work-group space is essential for team interaction and collaboration across the large, multi-functional, Ground Based Strategic Deterrent enterprise, and is critical for conducting multi-day development activities often requiring sub-working groups in close proximity.</p> <p>CURRENT SITUATION: Currently there is no facility on Hill AFB with adequate vacant space needed for centralizing Ground Based Strategic Deterrent enterprise activities in a controlled, secure environment and conducting workgroup and collaboration activities. Presently, activities are spread across multiple facilities in both government and commercial facilities due to lack of consolidated space. Many of these facilities are substandard, obsolete, and scheduled for demolition under the Enhanced-Use Lease program and must be vacated. The dispersed locations, obsolete conditions, and lack of purpose-designed secure work-group space make efficient and coordinated workflow difficult, resulting in delays, limitations, and impairments to critical workgroup and team activities.</p> <p>IMPACT IF NOT PROVIDED: Without this project, the development and deployment of the Ground Based Strategic Deterrent weapons system vital to the defense and security of the United States and its allies could be impaired or delayed.</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION HILL AFB UTAH		4. PROJECT TITLE: GBSD TECHNOLOGY AND COLLABORATION CENTER	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-764	7. PROJECT NUMBER KRSM1085758	8. PROJECT COST (\$000) 84,000
<p>Without consolidation in a secure facility and the inherent control, sensitive information is at risk, jeopardizing the security of the Ground Based Strategic Deterrent system development and deployment.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02. This includes the preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of UFC 1-200-02 is partially compliant or not applicable. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New construction is the only viable option to meet this requirement. A formal economic analysis has been started and is in progress. This design shall conform to criteria established in the Air Force Corporate Facilities Standards (AFCFS), the Installation Facilities Standards (if applicable), but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. Primary facilities costs are in line with the DoD Pricing Guide UFC 3-701-01. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the installation Development Plan and is within a compatible land use area. Supporting facilities cost exceeds 25% on the primary facility cost due to additional road work required to accommodate personnel access to the facility and bringing utilities to the facility.</p> <p>75 CEG Base Civil Engineer: (801) 777-7505</p> <p>Integration Support Facility: 7,292 SM = 78,490 Square Feet</p> <p>JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use by other components.</p>			



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION HILL AFB UTAH		4. PROJECT TITLE: GBSD TECHNOLOGY AND COLLABORATION CENTER	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-764	7. PROJECT NUMBER KRSM1085758	8. PROJECT COST (\$000) 84,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status			
(a) Type of Design			DESIGN-BUILD
(b) Date Design Started			8-DEC-20
(b) Parametric Cost Estimated Used to Develop Cost			YES
(c) Percent Complete as of January 2022			65%
(d) Date Design 35% Complete			1-MAR-21
(e) Date Design 100% Complete			4-NOV-21
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design			NO
(b) Where Design Was Most Recently Used			N/A
(3) Total Cost (\$000)			
(a) Production of Plans and Specifications			4,734
(b) All Other Design Costs			2,366
(c) Total			7,100
(d) Contract			5,917
(e) In-House			1,183
(4) Construction Contract Award			23-APR
(5) Construction Start			23-NOV
(6) Construction Completion			25-NOV
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURRING APPRO	OR REQUESTED	(\$000)
CONSTRUCTION & SURVEILLANCE TEC	3080	2025	1,622
TELEPHONE EQUIPMENT	3080	2025	360
FURNITURE, FIXTURES, & EQUIPMENT	3080	2025	600
IT EQUIPMENT	3080	2025	5,400

<b>1. COMPONENT</b> AIR FORCE			<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE (YYYYMMDD)</b> 20220308		
<b>3. INSTALLATION AND LOCATION</b> FE WARREN AIR FORCE BASE, WYOMING					<b>4. COMMAND</b> AIR FORCE GLOBAL STRIKE COMMAND				<b>5. AREA CONSTRUCTION COST INDEX</b> 1.07		
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
		<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF	30-SEP-21	467	2,461	498	0	0	0	415	2,218	725	6,784
b. END FY		463	2,438	493	0	0	0	403	2,178	726	6,701
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE										6,834	
b. INVENTORY TOTAL AS OF 30-SEP-21										2,873,901.00	
c. AUTHORIZATION NOT YET IN INVENTORY										168,050.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										176,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										214,269.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										1,586,945.00	
g. REMAINING DEFICIENCY										548,000.00	
h. GRAND TOTAL										5,567,165.00	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>											
<b>a. CATEGORY</b>				<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>					
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>			<b>(3) SCOPE</b>				<b>(1) START</b>	<b>(2) COMPLETE</b>		
141-911	GBSD INTEGRATED COMMAND CENTER			5,527 SM		95,000		02/21	08/22		
911-146	GBSD LAND ACQUISITION			755 AC		34,000		06/21	10/23		
141-915	GBSD MISSILE HANDLING COMPLEX			2,193 SM		47,000		02/21	08/22		
<b>9. FUTURE PROJECTS</b>											
149-512 GBSD Launch Center Conversion (TBD / \$170,191)											
171-618 GBSD Integrated Training Center (TBD / \$34,132)											
171-618 GBSD Launch Facility Trainer (TBD / \$9,946)											
212-216 GBSD Consolidated Maintenance Facility (15,464 SM / \$130,800)											
149-512 GBSD Launch Facility Conversion (TBD / \$138,147)											
171-618 GBSD SF-LFT (TBD / \$15,142)											
149-512 GBSD Launch Center Conversion (TBD / \$658,784)											
610-243 GBSD Operations Group Facility (TBD / \$36,879)											
149-512 GBSD Launch Center (LC) Conversion (TBD / \$607,193)											
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
Francis. E. Warren Air Force Base is home to the 90th Missile Wing (MW) and Headquarters, 20th Air Force of Air Force Global Strike command. The mission of the 90th MW is to defend America with the world's premier combat ready Intercontinental Ballistic Missile (ICBM) force. The 90th MW operates 150 Minuteman III ICBMs on full alert and maintains the missile fields across a 12,600-square-mile area in Wyoming, Nebraska, and Colorado. The wing also operates 9 UH-1N Huey helicopters that perform nuclear convoy security and missile site support.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>											
N/A											

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION F. E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE: GBSD INTEGRATED COMMAND CENTER		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-911	7. PROJECT NUMBER GHLN231990	8. PROJECT COST (\$000) 95,000	
9. COST ESTIMATE				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				66,445
MISSILE OPERATIONS BUILDING (141-911)	SM	5,527	9,138	(50,506)
ICD 705 PREMIUM	LS			(14,291)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(1,648)
SUPPORTING FACILITIES				17,705
UTILITIES	LS			(1,375)
DUCT BANK TO ITNs 333 & 1284	LS			(679)
CONNECTION TO BUILDINGS 333 &	LS			(1,198)
B334 PAVEMENTS	LS			(884)
SITE IMPROVEMENTS	LS			(10,801)
ELECTRICAL	LS			(1,580)
COMMUNICATIONS	LS			(546)
PRIVATIZED UTILITIES FEE GENERATOR	LS			(10)
	KW	800	790	(632)
SUBTOTAL				84,150
CONTINGENCY (5%)				4,208
TOTAL CONTRACT COST				88,358
SIOH (5.7%)				5,036
DESIGN DURING CONSTRUCTION (0.34%)				300
COMMISSIONING (1.5%)				1,325
TOTAL PROJECT COST				95,019
TOTAL PROJECT COST (Rounded)				95,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(14,256)
10. DESCRIPTION OF PROPOSED WORK: Construct a multi-story Integrated Command Center for the new Ground Based Strategic Deterrent IntercontinentalBallistic Missile mission at F.E. Warren Air Force Base. The majority of the facility will meet Intelligence Community Directive 705 technical standards, include mitigation measures for direct hostile threats, emergency power, High-altitude Electromagnetic Pulse, and Chemical, Biological, Radiological protection measures. Project will include all site improvements, utilities, pavements, communications, electrical work and all associated support facilities to provide a complete and useable facility, to include a duct bank to Independent Telecommunication Network (ITN). This mission critical, highly secure facility will be used to provide status of launch centers and launch facilities for the tailored leadership picture and direct the day-to-day activities of the Wing				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION F. E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE: GBSD INTEGRATED COMMAND CENTER		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-911	7. PROJECT NUMBER GHLN231990	8. PROJECT COST (\$000) 95,000	
<p>Operations, Maintenance, Security Forces and Cybersecurity personnel operating within the missile field. Program software and Key and Code change capability within this facility allows it to be the primary hub to transfer data on network layers with safe, secure operations. This facility accommodates a crew of 44 personnel as a 24/7 operational facility. In addition to audio/visual, commercial, NIPR, and SIPR communications, there will be a Higher Authority Communication systems and interconnectivity with senior leadership associated with this facility. This project is authorized a generator, per AFI 32-1062. The facility will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Anti-Terrorism/Force Protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air conditioning: 140 Tons</p>				
<p>11. REQUIREMENT: 5,527 SM                      ADEQUATE: 0 SM                      SUBSTANDARD: 0 SM  PROJECT: Ground Based Strategic Deterrent Integrated Command Center REQUIREMENT:  As an integral part of the weapon system, the Ground Based Strategic Deterrent Integrated Command Center is required to support the deployment and Initial Nuclear Surety Inspection. The Integrated Command Center will fulfill the need for a centralized operations center, house day-to-day mission control, weapon system management, and disaster management. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: The current Intercontinental Ballistic Missile Weapon System does not have this requirement nor the capability to meet the new requirement for the Ground Based Strategic Deterrent.</p> <p>IMPACT IF NOT PROVIDED: As an integral part of the Ground Based Strategic Deterrent communication system, the Integrated Command Center must be operational when the first Launch Facility is turned over to the Engineering, Manufacturing and Development contractor for conversion. Some of the required capabilities of the Launch Facility cannot be validated without the Integrated Command Center in an operational state.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standard, but will not employ a standard facility design because there is no AF standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. An analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements; new construction.</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION F. E. WARREN AIR FORCE BASE WYOMING			4. PROJECT TITLE: GBSD INTEGRATED COMMAND CENTER	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-911	7. PROJECT NUMBER GHLN231990	8. PROJECT COST (\$000) 95,000	
<p>Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of the Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>90th Missile Wing Base Civil Engineer: (307) 481-3600</p> <p>MISSILE OPERATIONS BUILDING: 5,527 SM = 59,492 Square Feet.</p> <p>JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use by other components.</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION F. E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE GBSD INTEGRATED COMMAND CENTER		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-911	7. PROJECT NUMBER GHLN231990	8. PROJECT COST (\$000) 95,000	
12. SUPPLEMENTAL:				
a. Estimated Design Data:				
(1) Status				
(a) Type of Design	DESIGN-BID-BUILD			
(b) Date Design Started	08-FEB-21			
(c) Parametric Cost Estimates Used to Develop Costs	YES			
(d) Percent Complete as of 01 Jan 2022	35%			
(e) Date 35% Designed	15-APR-21			
(f) Date Design Complete	15-AUG-22			
(g) Energy Study/Life Cycle analysis was/will be performed	YES			
(2) Basis				
(a) Standard or Definitive Design Used	NO			
(b) Where Design Was Previously Used	N/A			
(3) Total Cost (c) = (a) + (b) or (d) + (e)	(\$000)			
(a) Production of Plans and Specifications	5,700			
(b) All Other Design Costs	2,850			
(c) Total	8,550			
(d) Contract	7,125			
(e) In-House	1,425			
(4) Construction Contract Award	23-APR			
(5) Construction Start	23-MAY			
(6) Construction Completion	25-JUL			
b. Equipment associated with this project provided from other appropriations:				
			FISCAL YEAR	
			APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPRO		OR REQUESTED	(\$000)
COMMUNICATION	3080		2025	4,096
FURNISHINGS, FIXTURES & EQUIPMENT	3080		2025	1,601
SECURITY EQUIPMENT	3010		2025	1,366
UPS EQUIPMENT	3400		2025	228
AUDIO VISUAL EQUIPMENT	3080		2025	6,965

**Project: GBSD Integrated Command Center, FE Warren AFB, WY**

**Project Spending Plan**

As of: 9-Mar-22

All Cost in thousands (\$000)

Chart Begin/End

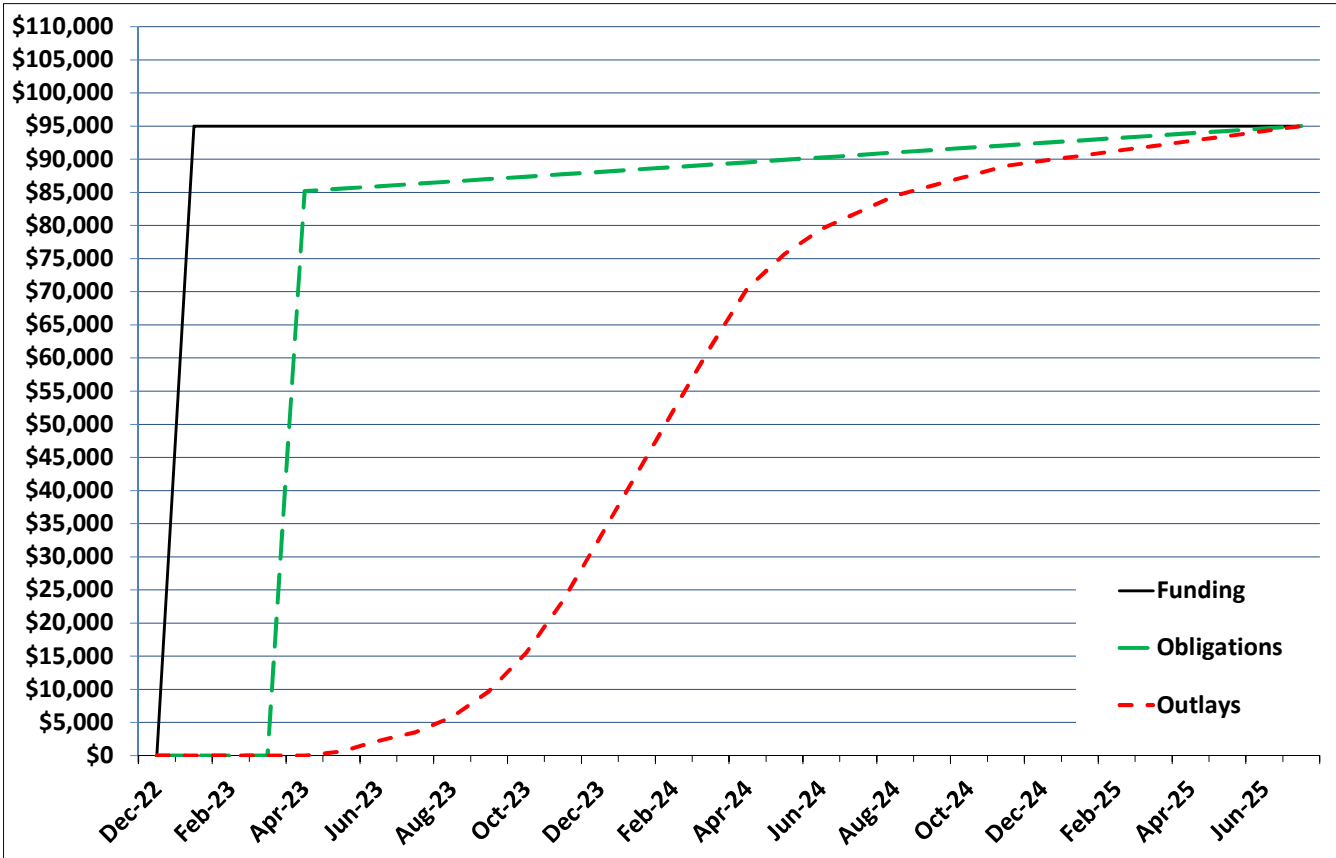
Dec-22	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Jul-25	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Dec-22	-	-	-	-	-	-
Jan-23	95,000	95,000	-	-	-	-
Feb-23	-	95,000	-	-	-	-
Mar-23	-	95,000	-	-	-	-
Apr-23	-	95,000	85,190	85,190	-	-
May-23	-	95,000	363	85,553	632	632
Jun-23	-	95,000	363	85,917	1,593	2,225
Jul-23	-	95,000	363	86,280	1,280	3,505
Aug-23	-	95,000	363	86,644	2,342	5,846
Sep-23	-	95,000	363	87,007	3,874	9,721
Oct-23	-	95,000	363	87,370	5,796	15,517
Nov-23	-	95,000	363	87,734	7,840	23,357
Dec-23	-	95,000	363	88,097	9,590	32,947
Jan-24	-	95,000	363	88,461	9,590	42,537
Feb-24	-	95,000	363	88,824	9,606	52,143
Mar-24	-	95,000	363	89,187	9,590	61,733
Apr-24	-	95,000	363	89,551	8,840	70,573
May-24	-	95,000	363	89,914	5,096	75,669
Jun-24	-	95,000	363	90,278	3,831	79,500
Jul-24	-	95,000	363	90,641	2,500	82,000
Aug-24	-	95,000	363	91,004	2,500	84,500
Sep-24	-	95,000	363	91,368	1,500	86,000
Oct-24	-	95,000	363	91,731	1,500	87,500
Nov-24	-	95,000	363	92,094	1,500	89,000
Dec-24	-	95,000	363	92,458	750	89,750
Jan-25	-	95,000	363	92,821	750	90,500
Feb-25	-	95,000	363	93,185	750	91,250
Mar-25	-	95,000	363	93,548	750	92,000
Apr-25	-	95,000	363	93,911	750	92,750
May-25	-	95,000	363	94,274	750	93,500
Jun-25	-	95,000	363	94,637	750	94,250
Jul-25	-	95,000	363	95,000	750	95,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2023.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in APR 2023 and contract completion JUL 2025; duration 27 months.

# GBSD Integrated Command Center, FE Warren AFB, WY





1. COMPONENT AIR FORCE		FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022	
3. INSTALLATION AND LOCATION F.E. WARREN AFB WYOMING			4. PROJECT TITLE: GBSD LAND ACQUISITION, PHASE 1			
5. PROGRAM ELEMENT 11233F		6. CATEGORY CODE 911-146	7. PROJECT NUMBER GHLN235615		8. PROJECT COST (\$000) \$34,000	
9. COST ESTIMATES						
ITEM			U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES						29,198
LAND PURCHASE FEE			AC	755	38,673	(29,198)
SUBTOTAL						29,198
CONTINGENCY (10%)						2,920
TOTAL CONTRACT COST						32,118
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)						1,831
TOTAL REQUEST						33,949
TOTAL REQUEST (ROUNDED)						34,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Acquire Land, Easement Right of Way, to support new utility corridors for infrastructure of the Ground Based Strategic Deterrent. Ground Based Strategic Deterrent assets are located throughout areas in Wyoming, Nebraska and Colorado. Project will be phased based upon U.S. Air Force and U.S. Army Corps of Engineers manpower requirements.  AIR CONDITIONING: 0 Tons						
11. REQUIREMENT: 755 AC                      ADEQUATE: 0 AC                      SUBSTANDARD: 0 AC  PROJECT: Acquire sufficient interests in real estate to support deployment of Ground Based Strategic Deterrent. An estimated 830 miles of utility corridors, totaling approximately 2,550 acres, will be acquired. Total project area will impact nearly 1,500 individual parcels. Project will be accomplished in phases to enable the Air Force and Army Corps of Engineers to properly align to deployment schedule. Phase 1 will acquire utility corridors from Francis E. Warren Air Force Base to the 90th Missile Wing, in addition to utility corridors connecting three Flights of Launch Facilities and Missile Alert Facilities. Phase 1 will also include land to allow construction of tower sites and communication support buildings. All proposed utility corridors are in addition to those currently in use at the 90 <sup>th</sup> Missile Wing.  REQUIREMENT: Phase 1 includes approximately 755 acres. 746 acres will be purchased using an easement estate to establish an approximate 16' wide permanent utility corridor, with an additional 8' temporary easement to support construction. Four acres will be purchased in fee estate to create four individual, one acre tower sites. Five acres will be purchased using temporary easements to support construction of temporary communication support buildings. Phases 2, and 3 will acquire utility corridors, tower sites and communication support buildings in adjacent Flights as determined by deployment schedule, also known as the Order of Service.						

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION F.E. WARREN AFB WYOMING		4. PROJECT TITLE: GBSD LAND ACQUISITION, PHASE 1	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 911-146	7. PROJECT NUMBER GHLN235615	8. PROJECT COST (\$000) \$34,000
<p>CURRENT SITUATION: Current configuration of the Intercontinental Ballistic Missile field does not meet the Ground Based Strategic Deterrent weapon system requirements in order to modernize the ground-based leg of the U.S. Nuclear Triad. Real estate must be purchased to meet weapon system requirements.</p> <p>IMPACT IF NOT PROVIDED: Intercontinental Ballistic Missile nuclear weapon modernization cannot start until real estate is purchased. Conversion of Minuteman III sites cannot begin without constructing utility corridors. Any delay to funding Phase 1 will not only impact subsequent phases of real estate transactions, but severely affect the ability of the United States Air Force to deliver a Major Defense Acquisition Program.</p> <p>ADDITIONAL: All reasonable alternatives were considered during the development of this project to include status quo, reduction of weapon system requirements, and land acquisition. New land acquisition is the only viable option to meet the Ground Based Strategic Deterrent weapon system requirement for the ACAT 1 program.</p> <p>90th Missile Wing Base Civil Engineer: (307) 481-3600</p> <p>JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use of other components.</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION F.E. WARREN AFB WYOMING		4. PROJECT TITLE: GBSD LAND ACQUISITION, PHASE 1	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 911-146	7. PROJECT NUMBER GHLN235615	8. PROJECT COST (\$000) \$34,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design			NA
(b) Date Design Started			01-JUN-21
(c) Parametric Cost Estimate used to develop costs			YES
(d) Percent Complete as of 01-JAN-2022			N/A
(e) Date 35% Designed			N/A
(f) Date Design Completed			29-OCT-23
(g) Energy Study/Life-Cycle Analysis was/will be performed			NO
(2) Basis			
(a) Standard or Definitive 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 Specs			2,040
(b) All other Design Costs			1,020
(c) Total			3,060
(d) Contract			2,295
(e) In-House Costs			765
(4) Construction Contract Award			23-MAR
(5) Construction Start			23-APR
(6) Construction Complete			26-JUN
b. Equipment associated with this project provided from other appropriations: N/A			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE GBSD MISSILE HANDLING COMPLEX		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-915	7. PROJECT NUMBER GHLN231991	8. PROJECT COST (\$000) 47,000	
9. COST ESTIMATE				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				32,145
MISSILE TRANSFER BUILDING (141-915)	SM	2,193	7,415	(16,261)
VEHICLE OPERATIONS HEATED PARKING (214-426)	SM	2,490	5,823	(14,499)
PAD, DANGEROUS CARGO, LOAD/UNLOAD (116-662)	SM	554	284	(157)
ICD 705 PREMIUM	LS			(459)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(769)
SUPPORTING FACILITIES				9,892
UTILITIES	LS			(2,911)
SITE IMPROVEMENTS	LS			(1,355)
ROADWAYS, WALKWAYS, AND PARKING	LS			(1,936)
COMMUNICATIONS	LS			(2,074)
BACKUP GENERATOR	KW	800	825	(660)
PRIVATIZED UTILITIES FEE	LS			(956)
SUBTOTAL				42,037
CONTINGENCY (5%)				2,102
TOTAL CONTRACT COST				44,139
SIOH (5.7%)				2,516
COMMISSIONING (1.5% OF SUBTOTAL)				631
TOTAL REQUEST				47,286
TOTAL REQUEST (ROUNDED)				47,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(2,100)
10. DESCRIPTION OF PROPOSED WORK: The Missile Handling Complex will be designed as a single story, Missile Handling Facility, a single-story Transporter Storage and Missile Handling Administrative Combined Facility, and an expansion to two existing dangerous cargo pads. Site work improvements include clearing, grubbing, grading, demolition (as applicable), paving walkways, and storm drainage. The Missile Handling Complex is designed as two large structures, one housing the Missile Handling Facility and a second combining the Transporter Storage Facility and Missile Handling Administrative Facility. The Missile Handling Facility will be constructed of a steel structure containing three missile bays and a staging area connected to a steel structure transporter/trailer storage component with low rise building support functions attached. The missile bays and staging area are situated on an elevated concrete platform for each bay. Each missile bay will require steel rails and space for a winching system for loading/unloading of boosters from transporter trailers. Columns between bays will be incorporated to gain structural efficiency assuming clearance is maintained for transporters. The				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE GBSD MISSILE HANDLING COMPLEX		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-915	7. PROJECT NUMBER GHLN231991	8. PROJECT COST (\$000) 47,000	
<p>Transporter Storage Facility will be designed to be an open steel structure with six transporter storage bays allowing pull through capability. Equipment storage, restroom, and facility support spaces are constructed of low-rise steel structures directly attached to the Transporter storage bays. The Missile Handling Administrative Facility will be a one-story steel structure with private offices, open work areas, conferences rooms, locker rooms, break rooms, storage/supply rooms, and a Collateral Secret building with compliant intrusion detection and access control systems built to applicable ICD-705 criteria. The exterior plan for all buildings is sloped standing seam metal roof with polycarbonate clerestory for the high bays and insulated metal wall panels with a natural stone wainscot base. The project will consist of a steel core and concrete foundations, electrical/mechanical service and distribution components/systems, water and sewer, fire protection, lightning protection, vehicle exhaust systems, compressed air system, security systems, and communications systems. The expansion of the cargo pads and lightning protection systems will support the increased size of the special purpose vehicles utilized within the Complex area. The complex will be located within a secure boundary. This project is authorized a generator, per AFI 32-1062. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with DoD antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>AIR CONDITIONING: 50 Tons</p>				
<p>11. REQUIREMENT: 2,193 SM                      ADEQUATE: 0 SM                      SUBSTANDARD: 0 SM</p> <p>PROJECT: Construct GBSD Missile Handling Complex.</p> <p>REQUIREMENT: AFGSC has selected F.E. Warren AFB to be the first missile base to deploy the first Ground Based Strategic Deterrent Intercontinental Ballistic Missiles while all of its Minuteman III missiles are removed. The deployment will utilize a different handling method and security level than the Minuteman system, which require the construction of the Missile Handling Complex to accomplish the mission. The Missile Handling Facility is to facilitate the loading and unloading of the Ground Based Strategic Deterrent sized boosters onto elevated rails and must be built and outfitted with new weapon system components prior to supporting the deployment activities without interruptions to the Minuteman III demilitarization schedule. The Ground Based Strategic Deterrent missile handling and storage complex must be outfitted with weapon system components prior to supporting the Ground Based Strategic Deterrent deployment activities without interruptions to the Minuteman III demilitarization schedule. The transition will involve additional special transport vehicles and personnel because current Minuteman III facilities are not equipped to perform this task. The purpose of the Transporter Storage Facility is to allow special purpose vehicles to be mission ready and protected from the harsh climate of the northern tier base. The new missiles will arrive by special contractor vehicles,</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE GBSD MISSILE HANDLING COMPLEX		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-915	7. PROJECT NUMBER GHLN231991	8. PROJECT COST (\$000) 47,000	
<p>await transfer to transport erectors which will install each Intercontinental Ballistic Missile booster into a modernized Launch Facility located in the missile complex. Simultaneously, the Minuteman boosters will be removed by transport erectors to allow launch facility modernizations at a rate of nearly one a week. The Missile Handling Administrative Facility will support personnel and house field supplies and equipment otherwise taking valuable space in the other facilities and vehicles in the Complex area. The administrative facility will include a Collateral Secret area with compliant intrusion detection and access control systems built to applicable ICD-705 criteria. The expansion of the cargo pads described in this project are essential for the increased vehicle operation space required for deployment of the Ground Based Strategic Deterrent weapon systems. The Missile Handling Administrative Facility is required to contain a collateral work area built with intrusion detection and access control systems to applicable ICD-705 criteria. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION &amp; IMPACT: The 2019 Missile Transfer facility will be 100% utilized for demilitarization of existing Minuteman III missiles. The current Minuteman III administrative facility will remain at 100% capacity throughout the deployment. Additionally, the existing Minuteman III Missile Transfer Facility does not qualify as an ICD-705 Facility.</p> <p>IMPACT IF NOT PROVIDED: The Minuteman III occupies the 2019 Missile Transfer Facility 4330-A with a vehicle-to-vehicle transfer method. Boosters are not removed from vehicles while awaiting transfer to specialized vehicles for deposition. The three proposed facilities, along with the dangerous cargo pads and all associated lightning protection systems, deliver a synergistic capability, vital to the transition, deployment, and long-term sustainment of the next generation Intercontinental Ballistic Missile weapon system. Each of these individual capabilities is dependent on the other to maximize the safe and timely handling, storage, and processing of Ground Based Strategic Deterrent for emplacement, and operational deployment. Failure to modernize and construct any one of these new facilities, cargo pads, or lightning protection systems within the Missile Handling Complex, will seriously degrade, or even prevent, the successful deployment of Ground Based Strategic Deterrent to meet Initial Nuclear Surety Inspection and Initial Operational Capability.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facility Standards, but will not employ a standard facility design because there is no AF standard facility design for this project and there is no applicable standard design from Air Force Civil Engineer Center. All reasonable alternatives were considered during the development of this project to include [status quo, add/alter, and new construction]. New Construction is the only viable option to meet this requirement. A formal</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE GBSD MISSILE HANDLING COMPLEX		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-915	7. PROJECT NUMBER GHLN231991	8. PROJECT COST (\$000) 47,000	
<p>economic analysis is in progress and will be completed before approval of the President's Budget. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of the Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within the 100-year flood plain. The Complex is sited in accordance with the Installation Development Plan is within a compatible land use area.</p> <p>90th Missile Wing Base Civil Engineer: (307) 481-3600</p> <p>MISSILE TRANSFER BUILDING: 2,193 SM = 23,605 Square Feet;</p> <p>VEHICLE OPERATIONS HEATED PARKING: 2,490 SM = 26,802 Square Feet;</p> <p>PAD, DANGEROUS CARGO, LOAD/UNLOAD: 554 SM = 5,963 Square Feet.</p> <p>JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use of other components.</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE GBSD MISSILE HANDLING COMPLEX		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-915	7. PROJECT NUMBER GHLN231991	8. PROJECT COST (\$000) 47,000	
12. SUPPLEMENTAL DATA:				
13. Estimated Design Data:				
(1) Status				
(a) Type of Design			DESIGN-BID-BUILD	
(b) Date Design Started			04-FEB-21	
(c) Parametric Cost Estimates Used to Develop Costs			YES	
(d) Percent Complete as of 01-JAN-2022			65%	
(e) Date Design 35% Complete			15-APR-21	
(f) Date Design 100% Complete			11-AUG-22	
(g) Energy Study and Life Cycle analysis was performed			YES	
(2) Basis				
(a) Standard or Definitive Design Used			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			2,820	
(b) All Other Design Costs			1,410	
(c) Total			4,230	
(d) Contract			3,525	
(e) In-House			705	
(4) Construction Contract Award			23-APR	
(5) Construction Start			23-MAY	
(6) Construction Completion			25-JUL	
b. Equipment associated with this project provided from other appropriations:				
		FISCAL YEAR		
		APPROPRIATED	COST	
EQUIPMENT NOMENCLATURE	PROCURING APPRO	OR REQUESTED	(\$000)	
FURNISHINGS, FIXTURES & EQUIPMENT	3400	2026	150	
CONSTRUCTION SURVEILLANCE TECH	3080	2023	250	
COMMUNICATIONS EQUIPMENT	3400	2023	150	
IT EQUIPMENT	3080	2026	250	
WEAPONS SYSTEM INSTALLATION	3020	2026	1,000	
SECURITY EQUIPMENT	3080	2023	300	



<b>1. COMPONENT</b> AIR FORCE			<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE (YYYYMMDD)</b> 20220308			
<b>3. INSTALLATION AND LOCATION</b> TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS						<b>4. COMMAND</b> PACIFIC AIR FORCES			<b>5. AREA CONSTRUCTION COST INDEX</b> 3.00			
<b>6. PERSONNEL</b>			<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
			OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-21			0	0	0	0	0	0	0	0	0	
b. END FY			0	0	0	0	0	0	0	0	0	
<b>7. INVENTORY DATA (\$000)</b>												
a. TOTAL ACREAGE										0		
b. INVENTORY TOTAL AS OF 30-SEP-21										0.00		
c. AUTHORIZATION NOT YET IN INVENTORY										366,700.00		
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										55,000.00		
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										421,700.00		
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>												
<b>a. CATEGORY</b>				<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>						
(1) CODE	(2) PROJECT TITLE			(3) SCOPE				(1) START	(2) COMPLETE			
851-147	PDI: AIRFIELD DEVELOPMENT PHASE 1, INC 2			69,920 SM		58,000		01/19	05/20			
411-135	PDI: FUEL TANKS W/PIPELN & HYDRANT, INC 2			220,000 BL		92,000		12/18	10/21			
113-321	PDI: PARKING APRON, INC 2			152,411 SM		41,000		01/19	05/20			
<b>9. FUTURE PROJECTS</b>												
851-147 PDI: AIRFIELD DEVELOPMENT PHASE 1, INC 3 (69,920 SM/26,000)												
411-135 PDI: FUEL TANKS W/PIPELN & HYDRANT, INC 3 (220,000 BL/47,000)												
113-321 PDI: PARKING APRON, INC 3 (152,411 SM/32,000)												
<b>10. MISSION OR MAJOR FUNCTIONS</b>												
The mission of the Pacific Air Force at Tinian is to protect and defend, in concert with other U.S. Government agencies, the territory of the United States, its people, and its interests. With allies and partners, commitment to enhancing stability in the Asia-Pacific region by promoting security cooperation, encouraging peaceful development, responding to contingencies, deterring aggression, and, when necessary, fighting to win.												
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>												
N/A												

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: AIRFIELD DEVELOPMENT PHASE 1, INC 2		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 851-147	7. PROJECT NUMBER PAF189021	8. PROJECT COST (\$000) AUTH: 0 APPR: 58,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				14,083
ROAD, SURFACED (851-147)	SM	69,920	136	(9,488)
FENCE BOUNDARY (872-245)	LM	3,865	368	(1,422)
PRIMARY DISTRIBUTION LINE UNDERGROUND (812-225)	LM	1,562	1,694	(2,646)
CYBERSECURITY OF FACILITY RELATED CONTROL SYS	LS			(250)
SUSTAINABILITY AND ENERGY MEASURES (2.0%)	LS			(276)
SUPPORTING FACILITIES				84,114
SITE IMPROVEMENTS	LS			(59,948)
UTILITIES	LS			(3,566)
ENVIRONMENTAL REMEDIATION	LS			(300)
ARCHAEOLOGICAL MONITORING	LS			(300)
EXPLOSIVE SAFETY SUBMISSION COMPLIANCE	LS			(20,000)
SUBTOTAL				98,196
CONTINGENCY (5.0%)				4,910
TOTAL CONTRACT COST				103,106
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				6,393
TOTAL REQUEST				109,499
TOTAL REQUEST (ROUNDED)				109,000
10. Description of Proposed Construction: This project provides site development for Air Force access to Tinian International Airport, including a cleared and levelsite with paved road access, security fencing, extensive earthwork, drainage, electrical and water utility connections, demolition of World War II-era airfield pavements, repair/improvement of haul route, and all other requirements. Facilities must be able to withstand 190 mph winds for structural elements and will be designed to Seismic Zone 3 design criteria. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01, Department of Defense Minimum Antiterrorism Standards for Buildings. Air Conditioning: 0 Tons				
11. Requirement: 69920 SM Adequate: 0 SM Substandard: 0 SM PROJECT: Airfield Development Phase 1 REQUIREMENT: Construct facilities and infrastructure in the Commonwealth of the Northern Mariana Islands (CNMI) to support a combination of cargo, tanker, and similar aircraft and associated support personnel for divert operations, training exercises, humanitarian assistance, disaster relief, and operational support to Air Force missions. This project will provide				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: AIRFIELD DEVELOPMENT PHASE 1, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 851-147	7. PROJECT NUMBER PAF189021	8. PROJECT COST (\$000) AUTH: 0 APPR: 58,000
<p>a secure, final-graded/level surface complete with all required and necessary utilities and infrastructure in-place. In sodoing, this project will ensure the slope of the pavements, provided under another project, and surrounding areas comply with Federal Aviation Administration, Department of Defense/Unified Facilities Criteria, and Air Force requirements, including UFC 3-210-01 regarding Low Impact Development. Water and electrical requirements/connections sized for planned Air Force operations at this location will be built into this project. Repairs and possible improvements will be needed to local infrastructure (e.g., roads) used to receive construction materials and haul them to the airfield site. The purpose is to support and conduct current, emerging, and future USAF training activities, while ensuring the capability to meet mission requirements in the event that access to other western Pacific locations is limited or denied. The proposed action is needed because there is not an existing divert or contingency airfield on U.S. territory in the western Pacific that is designed and designated to provide strategic operational and exercise capabilities for U.S. forces when needed and humanitarian assistance and disaster relief in times of natural or man-made disasters. All construction projects must comply with FAA regulations including Orders and Advisory Circulars applicable to commercial airports. In addition, this project will comply with CNMI Public Law 06-45 building codes.</p> <p>CURRENT SITUATIONS: A redundant airfield, with a required fuel depot and refueling capability/facilities for refueling aircraft that support multiple military activities/missions does not exist in the CNMI.</p> <p>IMPACT IF NOT PROVIDED: Without, the final grade leveling and comprehensive infrastructure (e.g., water, electrical, road systems, and secure perimeter fencing) installation resulting from this project, the follow-on bulk fuel storage and aircraft parking apron projects will not be executable. CNMI's strategic location is vital to Pacific Command/Pacific Air Forces emerging/future missions/activities and for divert tanker aircraft to effectively respond to natural disaster/humanitarian relief efforts in the area.</p> <p>ADDITIONAL: This design shall conform to criteria established in the Air Force Corporate Facilities Standards but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard from the Navy design agent. This project complies with the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." A Waiver to an Economic Analysis has been approved for this project. The Air Force will work with CNMI government and local authorities to obtain permissions for</p>			

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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 851-147	7. PROJECT NUMBER PAF189021	8. PROJECT COST (\$000) AUTH: 0 APPR: 58,000
<p>road and infrastructure improvements. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energyconsuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-01, High Performance and Sustainable Building Requirements is partially compliant or not applicable. Supporting Facilities costs exceed primaryfacility costs due to extensive excavation/in-fill requirements due to the topography of the undeveloped land, the distance from existing utilities, and potential presence of Munitions and Explosives of Concern from WWII. The supporting facilities cost exceeds 25% of the primary facilities cost due tothe substantial amount of earthwork required to add roads, fencing, and utilities. This project does not fall within or partly within the 100-year flood plain.</p> <p>Base Civil Engineer: 808-449-3810  Road: 69,920 SM = 752,613 SF;  Fence: 3,865 LM = 12,680 LF;  Electrical Distribution Line: 1,562 LM = 16,813 LF</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022																												
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<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Type of Design</td> <td>Design-Bid-Build</td> </tr> <tr> <td>(b) Date Design Started</td> <td>25-JAN-19</td> </tr> <tr> <td>(c) Parametric Cost Estimates used to develop costs</td> <td>YES</td> </tr> <tr> <td>(d) Percent Complete as of 01 JAN 2021</td> <td>100 %</td> </tr> <tr> <td>(e) Date 35% Designed</td> <td>15-MAR-19</td> </tr> <tr> <td>(f) Date Design Complete</td> <td>21-MAY-20</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle cost analysis was/will be performed</td> <td>YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>6,540</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>3,270</td> </tr> <tr> <td>(c) Total</td> <td>9,810</td> </tr> <tr> <td>(d) Contract</td> <td>8,175</td> </tr> <tr> <td>(e) In-house</td> <td>1,635</td> </tr> </table> <p>(4) Construction Contract Award 21-NOV</p> <p>(5) Construction Start 22-JAN</p> <p>(6) Construction Completion 25-OCT</p> <p>b. Equipment associated with this project provided from other appropriations:</p> <p>N/A</p>				(a) Type of Design	Design-Bid-Build	(b) Date Design Started	25-JAN-19	(c) Parametric Cost Estimates used to develop costs	YES	(d) Percent Complete as of 01 JAN 2021	100 %	(e) Date 35% Designed	15-MAR-19	(f) Date Design Complete	21-MAY-20	(g) Energy Study/Life-Cycle cost analysis was/will be performed	YES	(a) Standard or Definitive Design -	NO	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	6,540	(b) All Other Design Costs	3,270	(c) Total	9,810	(d) Contract	8,175	(e) In-house	1,635
(a) Type of Design	Design-Bid-Build																														
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 851-147	7. PROJECT NUMBER PAF189021	8. PROJECT COST (\$000) AUTH: 0 APPR: 58,000

c. Title, Authorization, and Appropriations Summary:

FY2020 Title is "AIRFIELD DEVELOPMENT PHASE 1"

FY2023 Proposed Title Change is "PDI: AIRFIELD DEVELOPMENT PHASE 1, INC 2"

	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2020 Enacted	109,000	10,000	25,000
FY2023 Budget Request	-----	58,000	58,000
Future Request	-----	41,000	26,000
<b>Total</b>	<b>109,000</b>		<b>109,000</b>

**Project: PDI: Airfield Development Phase 1, Inc 2, Tinian, CNMI**

**Project Spending Plan**

As of: 6-Mar-22

All Cost in thousands (\$000)

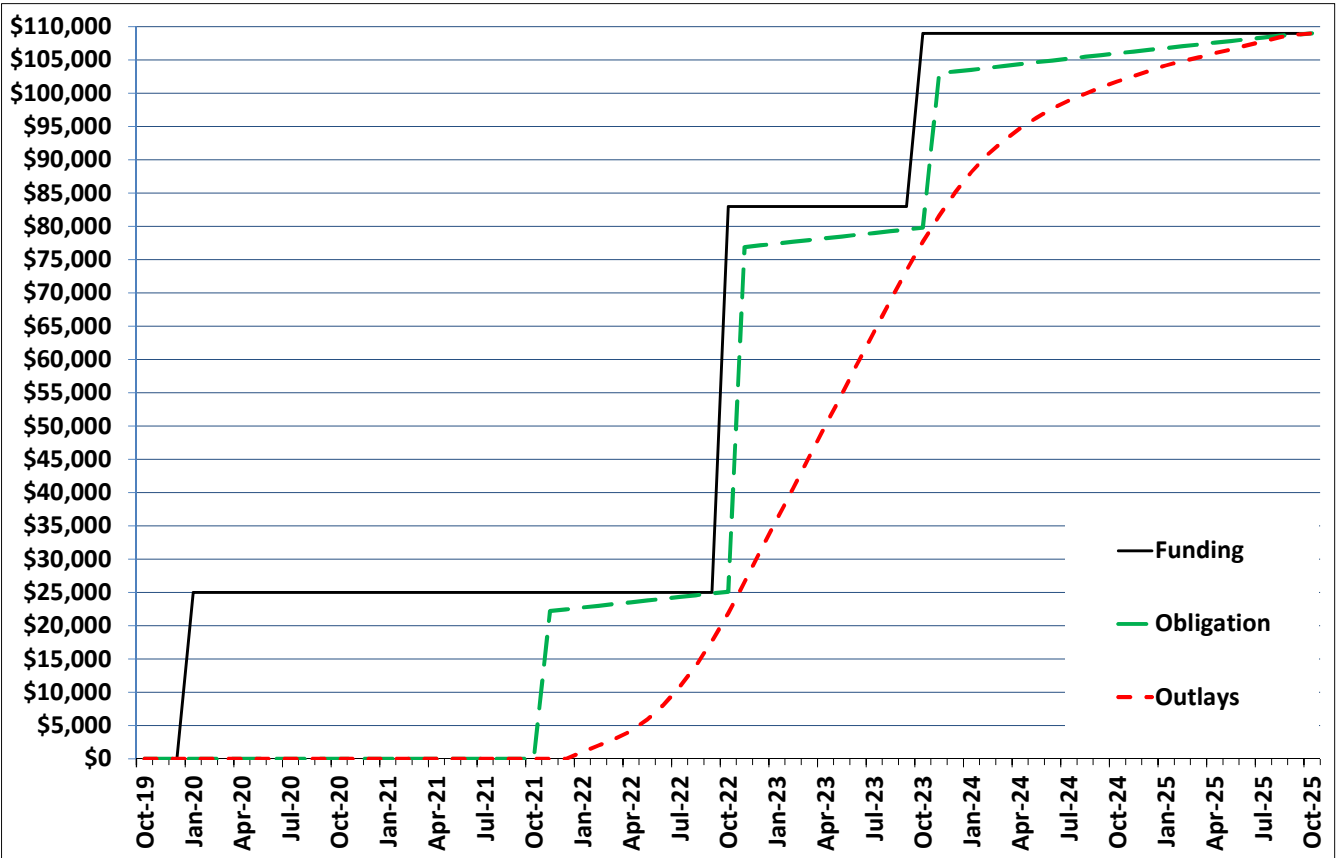
Chart Begin Oct-19	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-19	-	-	-	-	-	-
Nov-19	-	-	-	-	-	-
Dec-19	-	-	-	-	-	-
Jan-20	25,000	25,000	-	-	-	-
Feb-20	-	25,000	-	-	-	-
Mar-20	-	25,000	-	-	-	-
Apr-20	-	25,000	-	-	-	-
May-20	-	25,000	-	-	-	-
Jun-20	-	25,000	-	-	-	-
Jul-20	-	25,000	-	-	-	-
Aug-20	-	25,000	-	-	-	-
Sep-20	-	25,000	-	-	-	-
Oct-20	-	25,000	-	-	-	-
Nov-20	-	25,000	-	-	-	-
Dec-20	-	25,000	-	-	-	-
Jan-21	-	25,000	-	-	-	-
Feb-21	-	25,000	-	-	-	-
Mar-21	-	25,000	-	-	-	-
Apr-21	-	25,000	-	-	-	-
May-21	-	25,000	-	-	-	-
Jun-21	-	25,000	-	-	-	-
Jul-21	-	25,000	-	-	-	-
Aug-21	-	25,000	-	-	-	-
Sep-21	-	25,000	-	-	-	-
Oct-21	-	25,000	-	-	-	-
Nov-21	-	25,000	22,200	22,200	-	-
Dec-21	-	25,000	265	22,465	-	-
Jan-22	-	25,000	265	22,730	1,000	1,000
Feb-22	-	25,000	265	22,995	1,000	2,000
Mar-22	-	25,000	265	23,260	1,000	3,000
Apr-22	-	25,000	265	23,525	1,200	4,200
May-22	-	25,000	265	23,790	1,700	5,900
Jun-22	-	25,000	265	24,055	2,200	8,100
Jul-22	-	25,000	265	24,320	2,700	10,800
Aug-22	-	25,000	265	24,585	3,200	14,000
Sep-22	-	25,000	265	24,850	3,700	17,700
Oct-22	58,000	83,000	265	25,115	4,200	21,900
Nov-22	-	83,000	51,769	76,884	4,700	26,600
Dec-22	-	83,000	265	77,149	4,700	31,300
Jan-23	-	83,000	265	77,414	4,700	36,000
Feb-23	-	83,000	265	77,679	4,700	40,700
Mar-23	-	83,000	265	77,944	4,700	45,400
Apr-23	-	83,000	265	78,209	4,700	50,100
May-23	-	83,000	265	78,474	4,700	54,800
Jun-23	-	83,000	265	78,739	4,700	59,500
Jul-23	-	83,000	265	79,004	4,700	64,200
Aug-23	-	83,000	265	79,269	4,700	68,900
Sep-23	-	83,000	265	79,534	4,500	73,400
Oct-23	26,000	109,000	265	79,799	4,300	77,700
Nov-23	-	109,000	23,210	103,009	3,900	81,600
Dec-23	-	109,000	265	103,274	3,500	85,100
Jan-24	-	109,000	265	103,539	3,100	88,200
Feb-24	-	109,000	265	103,804	2,600	90,800
Mar-24	-	109,000	265	104,069	2,100	92,900
Apr-24	-	109,000	265	104,334	1,800	94,700
May-24	-	109,000	265	104,599	1,600	96,300
Jun-24	-	109,000	265	104,864	1,400	97,700
Jul-24	-	109,000	265	105,129	1,200	98,900
Aug-24	-	109,000	265	105,394	1,000	99,900
Sep-24	-	109,000	265	105,659	1,000	100,900
Oct-24	-	109,000	265	106,004	900	101,800
Nov-24	-	109,000	265	106,269	800	102,600
Dec-24	-	109,000	265	106,534	800	103,400
Jan-25	-	109,000	265	106,799	800	104,200
Feb-25	-	109,000	265	107,064	600	104,800
Mar-25	-	109,000	265	107,329	600	105,400
Apr-25	-	109,000	265	107,594	600	106,000
May-25	-	109,000	265	107,859	600	106,600
Jun-25	-	109,000	265	108,124	600	107,200
Jul-25	-	109,000	265	108,389	600	107,800
Aug-25	-	109,000	265	108,654	600	108,400
Sep-25	-	109,000	173	108,827	400	108,800
Oct-25	-	109,000	173	109,000	200	109,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2020.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award date of November 2021, Contract completion: October 2025, Duration 47 months.

**PDI: Airfield Development Phase 1, Inc 2, Tinian, CNMI**





1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: FUEL TANKS W/PIPELN & HYDRANT, INC 2		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 411-135	7. PROJECT NUMBER PAF189010	8. PROJECT COST (\$000) AUTH:0 APPR:92,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				75,797
JET FUEL STORAGE-ABOVE GROUND (411-135)	BL	220,000	146	(32,085)
PIPELINE, LIQUID FUELS-ABOVE GROUND (125-554)	LM	9,020	2,244	(20,241)
PUMP STATION, LIQUID FUEL (125-977)	GM	4,400	4,470	(19,667)
HYDRANT FUELING BUILDING (121-124)	SM	84	5,667	(476)
LIQUID FUEL TRUCK FILL STAND (126-925)	OL	2	355,428	(711)
PETROLEUM OPERATIONS BUILDING (121-111)	SM	149	4,906	(731)
AVIATION FUEL DISPENSING (121-115)	OL	1	150,000	(150)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(250)
SUSTAINABILITY AND ENERGY MEASURES (2.0%)	LS			(1,486)
SUPPORTING FACILITIES				71,714
SITE IMPROVEMENTS				(49,911)
PAVEMENTS				(9,716)
UTILITIES				(9,022)
BACKUP GENERATOR	KW	1,780	500	(890)
ENVIRONMENTAL REMEDIATION	LS			(300)
ARCHAEOLOGICAL MONITORING	LS			(75)
EXPLOSIVE SAFETY SUBMISSION COMPLIANCE	LS			(1,500)
SUBTOTAL				147,211
CONTINGENCY (5.0%)				7,361
TOTAL CONTRACT COST				154,572
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				9,583
TOTAL REQUEST				164,155
TOTAL REQUEST (ROUNDED)				164,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(2,030)
10. Description of Proposed Construction: Construct new jet fuel system including harbor fuel receipt, pipeline, fuel storage, and high flow rate fuel delivery to parking apron hydrant system as well as to truck stands. Fuel storage tanks include one 100K barrel aboveground storage tank and two 60K barrel aboveground storage tanks. The system will also include carbon steel pipelines, additization station, seaport pump station, cargo staging area with biosecurity control, operational pump station at airport, truck fillstands, pantograph fuel dispensing, fire protection, spill control,				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 411-135	7. PROJECT NUMBER PAF189010	8. PROJECT COST (\$000) AUTH:0 APPR:92,000
<p>backup generator required for fuel facilities, and parking for fuel- related vehicles. The project will include all necessary supporting facilities for a complete and usable facility including electrical, mechanical, HVAC, communications, area lighting and structural work for full and complete operations. Facilities must be able to withstand 190 mile per hour winds for structural elements and Seismic Zone 3 design criteria. Generator is authorized for fuel systems per Air Force Instruction 32-1062. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building Requirements. This project will comply with Department of Defense antiterrorism / force protection requirements per Unified Facilities Criteria 4-010-01, Department of Defense Minimum Antiterrorism Standards for Buildings.</p> <p>Air Conditioning: 18 Tons</p>			
<p>11. Requirement: 220,000 BL      Adequate: 0 BL      Substandard: 0 BL</p> <p>PROJECT: Fuel Tanks with Receipt Pipeline and Hydrant System</p> <p>REQUIREMENT: This project is part of the USAF plan in the Commonwealth of the Northern Mariana Islands (CNMI) to support a combination of cargo, tanker, and similar aircraft and associated support personnel for divert operations, training exercises, humanitarian assistance, disaster relief, and operational support to Air Force missions. This project will provide the ability to receive, store, and distribute 220,000 barrels of jet fuel in the CNMI to support Air Force mission requirements. It includes seaport facilities and pipelines to transport fuel from delivery ship to the bulk tanks at the airfield. It includes pump stations as needed (i.e., near the seaport to pump fuel from transport vessel to the bulk tanks, and another pump station to transport fuel from the tanks to the aircraft). The tanks will include an additization station and truck fillstands. Fire suppression is included, as required. A storage facility is required near the pump and controls building to store a trailer with containment boom and store the tanker to shore offload hose. The purpose is to support and conduct current, emerging, and future USAF training activities, while ensuring the capability to meet mission requirements in the event that access to Andersen Air Force Base or other western Pacific locations is limited or denied. The proposed action is needed because there is not an existing divert or contingency airfield on U.S. territory in the western Pacific that is designed and designated to provide strategic operational and exercise capabilities for U.S. forces when needed and humanitarian assistance and disaster relief in times of natural or man-made disasters. All construction projects must comply with Federal Aviation Administration regulations including Orders and Advisory Circulars applicable to commercial airports. In addition, project</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
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will comply with CNMI Public Law 06-45 building codes.

CURRENT SITUATION: A single airfield with facilities for the safe exercise of military activities does not exist in the Commonwealth of the Northern Mariana Islands.

IMPACT IF NOT PROVIDED: Without this facility, there is not an adequate supply of fuel to conduct USAF missions from the Commonwealth of the Northern Mariana Islands, which precludes use of the CNMI for emerging and future exercise missions or to divert tanker aircraft or respond effectively to natural disasters in the area.

ADDITIONAL: This project complies with the criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. A Waiver to an Economic Analysis has been approved for this project. Note the unit costs for the Hydrant System Fuel Pump House and Seaport Fuel Pump House are seemingly high as the unit cost includes, in addition to the respective pump house facilities, pumps and associated equipment which will be contained in the pump houses. Supporting Facilities exceed 25% of the primary facility costs due to extensive excavation/in-fill requirements due to the topography of the land and the lack of power and water utilities. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. This project does not fall within or partly within the 100-year flood plain. Facilities will be designed as permanent construction in accordance with the Unified Facilities Criteria 1-200-01, High Performance and Sustainable Building Requirements. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Unified Facilities Criteria 1-200-01, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-01, High Performance and Sustainable Building Requirements is partially compliant or not applicable.

Base Civil Engineer: 808-449-381

Fuel Tanks: 220,000 BL = 9,240,000 GA;

Pipeline: 9,020 LM = 29,600 LF;

Hydrant Fueling Building: 84 SM = 904 SF;

Petroleum Operations Building: 149 SM = 1604 SF

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<p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

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12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	17-DEC-18		
(c) Parametric Cost Estimates used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2022	100 %		
(e) Date 35% Designed	28-JUN-19		
(f) Date Design Complete	19-OCT-21		
(g) Energy Study/Life-Cycle cost analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive 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	6,540		
(b) All Other Design Costs	3,270		
(c) Total	9,810		
(d) Contract	8,175		
(e) In-house	1,635		
(4) Construction Contract Award	22-SEP		
(5) Construction Start	22-OCT		
(6) Construction Completion	25-DEC		
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHING, FIXTURES & EQUIP	3400	23	2,030

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: FUEL TANKS W/PIPELN & HYDRANT, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 411-135	7. PROJECT NUMBER PAF189010	8. PROJECT COST (\$000) AUTH:0 APPR:92,000

c. Title, Authorization, and Appropriation Summary:

FY2020 Title is "FUEL TANKS W/PIPELINE HYDRANT SYSTEM"

FY2023 Proposed Title Change is "PDI: FUEL TANKS W/PIPELN HYDRANT, INC 2"

	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2020 Enacted	109,000	10,000	25,000
FY2023 Budget Request	-----	92,000	92,000
Future Request	-----	7,000	47,000
Total	109,000		164,000

\* A Section 2853 request will be submitted in order to support the required higher authorization

**Project: PDI: Fuel Tanks w/ Pipeln & Hydrant, Inc 2, Tinian, CNMI**

**Project Spending Plan**

As of: 6-Mar-22

All Cost in thousands (\$000)

Chart Begin Oct-19	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-19	-	-	-	-	-	-
Nov-19	-	-	-	-	-	-
Dec-19	-	-	-	-	-	-
Jan-20	25,000	25,000	-	-	-	-
Feb-20	-	25,000	-	-	-	-
Mar-20	-	25,000	-	-	-	-
Apr-20	-	25,000	-	-	-	-
May-20	-	25,000	-	-	-	-
Jun-20	-	25,000	-	-	-	-
Jul-20	-	25,000	-	-	-	-
Aug-20	-	25,000	-	-	-	-
Sep-20	-	25,000	-	-	-	-
Oct-20	-	25,000	-	-	-	-
Nov-20	-	25,000	-	-	-	-
Dec-20	-	25,000	-	-	-	-
Jan-21	-	25,000	-	-	-	-
Feb-21	-	25,000	-	-	-	-
Mar-21	-	25,000	-	-	-	-
Apr-21	-	25,000	-	-	-	-
May-21	-	25,000	-	-	-	-
Jun-21	-	25,000	-	-	-	-
Jul-21	-	25,000	-	-	-	-
Aug-21	-	25,000	-	-	-	-
Sep-21	-	25,000	-	-	-	-
Oct-21	-	25,000	-	-	-	-
Nov-21	-	25,000	-	-	-	-
Dec-21	-	25,000	-	-	-	-
Jan-22	-	25,000	-	-	-	-
Feb-22	-	25,000	-	-	-	-
Mar-22	-	25,000	-	-	-	-
Apr-22	-	25,000	-	-	-	-
May-22	-	25,000	-	-	-	-
Jun-22	-	25,000	-	-	-	-
Jul-22	-	25,000	-	-	-	-
Aug-22	-	25,000	-	-	-	-
Sep-22	-	25,000	22,200	22,200	-	-
Oct-22	92,000	117,000	470	22,670	2,000	2,000
Nov-22	-	117,000	82,166	104,835	3,000	5,000
Dec-22	-	117,000	470	105,305	3,800	8,800
Jan-23	-	117,000	470	105,774	4,600	13,400
Feb-23	-	117,000	470	106,244	5,400	18,800
Mar-23	-	117,000	470	106,713	6,200	25,000
Apr-23	-	117,000	470	107,183	7,000	32,000
May-23	-	117,000	470	107,652	7,800	39,800
Jun-23	-	117,000	470	108,122	8,600	48,400
Jul-23	-	117,000	470	108,591	9,400	57,800
Aug-23	-	117,000	470	109,061	10,200	68,000
Sep-23	-	117,000	470	109,530	10,200	78,200
Oct-23	47,000	164,000	470	110,000	10,200	88,400
Nov-23	-	164,000	42,206	152,205	10,200	98,600
Dec-23	-	164,000	470	152,675	10,200	108,800
Jan-24	-	164,000	470	153,144	8,160	116,960
Feb-24	-	164,000	470	153,614	6,530	123,490
Mar-24	-	164,000	470	154,083	5,220	128,710
Apr-24	-	164,000	470	154,553	4,180	132,890
May-24	-	164,000	470	155,022	3,340	136,230
Jun-24	-	164,000	470	155,492	3,010	139,240
Jul-24	-	164,000	470	155,961	2,710	141,950
Aug-24	-	164,000	470	156,431	2,440	144,390
Sep-24	-	164,000	470	156,900	2,200	146,590
Oct-24	-	164,000	470	157,370	1,980	148,570
Nov-24	-	164,000	470	157,839	1,780	150,350
Dec-24	-	164,000	470	158,309	1,600	151,950
Jan-25	-	164,000	470	158,778	1,440	153,390
Feb-25	-	164,000	470	159,248	1,300	154,690
Mar-25	-	164,000	470	159,717	1,170	155,860
Apr-25	-	164,000	470	160,187	1,050	156,910
May-25	-	164,000	470	160,656	950	157,860
Jun-25	-	164,000	470	161,126	900	158,760
Jul-25	-	164,000	470	161,595	900	159,660
Aug-25	-	164,000	470	162,065	900	160,560
Sep-25	-	164,000	470	162,534	900	161,460
Oct-25	-	164,000	470	163,004	900	162,360
Nov-25	-	164,000	470	163,473	900	163,260
Dec-25	-	164,000	527	164,000	740	164,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2020.

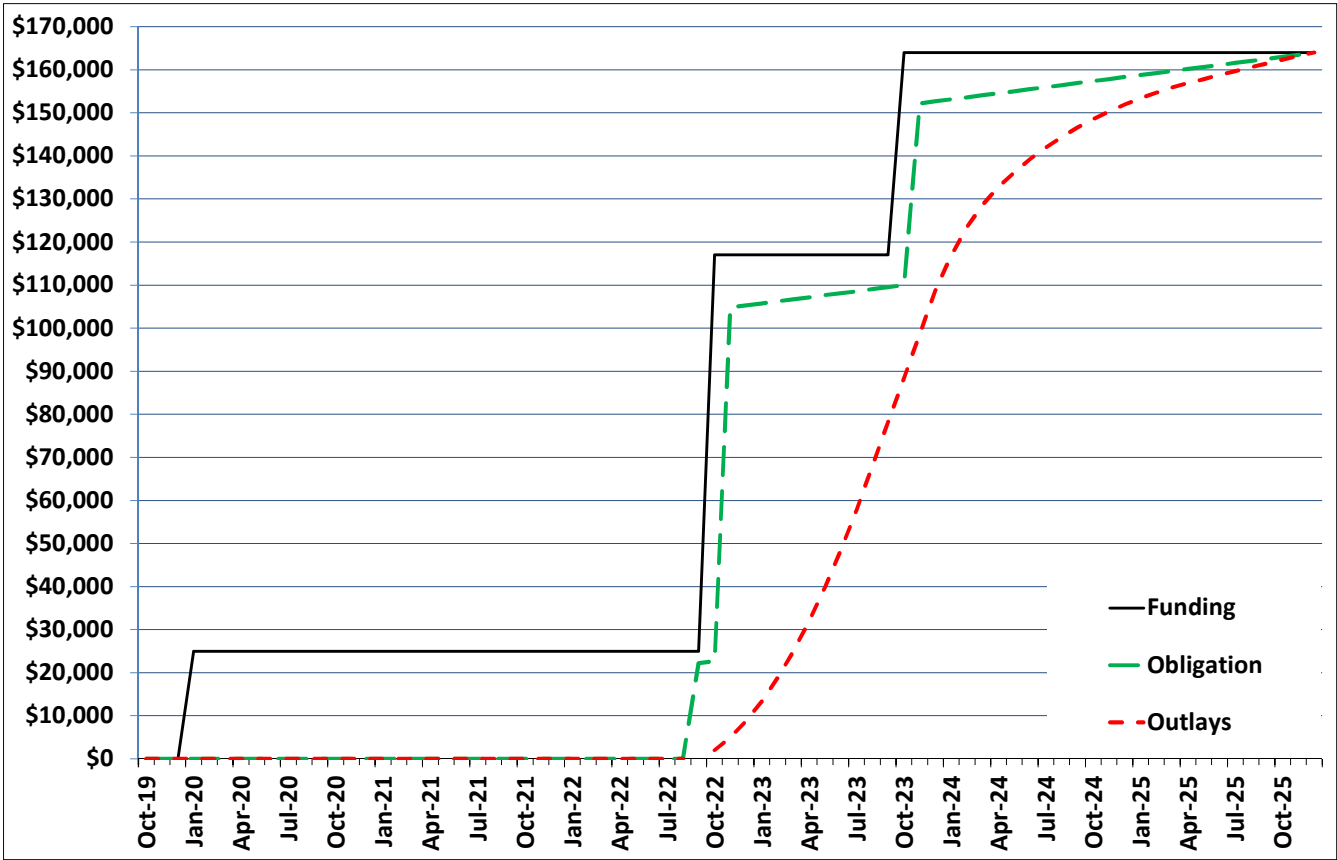
Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 2:

Contract award September 2022; contract completion December 2025. Duration 39 months.

Note 3:

**PDI: Fuel Tanks w/ Pipeln & Hydrant, Inc 2, Tinian, CNMI**





1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: PARKING APRON, INC 2		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER PAF189022	8. PROJECT COST (\$000) AUTH: 0 APPR: 41,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				64,981
APRON (113-321)	SM	152,411	270	(41,151)
TAXIWAY (112-211)	SM	39,783	270	(10,741)
SHOULDER, PAVED (116-642)	SM	37,726	55	(2,075)
HYDRANT FUELING SYSTEM (121-122)	OL	12	790,802	(9,490)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(250)
SUSTAINABILITY AND ENERGY MEASURES (2.0%)	LS			(1,274)
SUPPORTING FACILITIES				23,285
UTILITIES	LS			(2,844)
SITE IMPROVEMENTS	LS			(13,142)
PAVEMENTS	LS			(1,017)
LIGHTING AND COMMUNICATIONS	LS			(1,844)
ENVIRONMENTAL MONITORING	LS			(150)
EXPLOSIVE SAFETY SUBMISSION COMPLIANCE	LS			(4,288)
SUBTOTAL				88,266
CONTINGENCY (5.0%)				4,413
TOTAL CONTRACT COST				92,679
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				5,746
TOTAL REQUEST				98,425
TOTAL REQUEST (ROUNDED)				98,000
10. Description of Proposed Construction: Construct an aircraft parking apron and taxiways, with associated shoulders, using established airfield concrete and hot mix asphalt standards. The parking apron will be sized for 12 KC-135/KC-46A aircraft and includes hydrant piping and related components to support 12 fuel valve pits. The taxiways are required to meet Department of Defense standards for ground control operations for large frame aircraft. The project includes all necessary supporting components for a complete and usable facility. Facilities must be able to withstand 190 mph winds for structural elements and will be designed to Seismic Zone 3 design criteria. Air Conditioning: 0 Tons				
11. Requirement: 152,411 SM Adequate: 0 SM Substandard: 0 SM PROJECT : Parking Apron REQUIREMENT: Construct facilities and infrastructure in the Commonwealth of the Northern Mariana Islands (CNMI) to support a combination of cargo,				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: PARKING APRON, INC 2		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER PAF189022	8. PROJECT COST (\$000) AUTH: 0 APPR: 41,000	
<p>tanker, and similar aircraft and associated support personnel for divert operations, training exercises, humanitarian assistance, disaster relief, and operational support to AirForce missions.</p> <p>This project will provide the aircraft parking apron (includes hydrant refueling) and taxiway system to access the commercial runway needs to comply with DoD/Unified Facilities Criteria, Federal Aviation Administration (FAA), and AF requirements. The purpose is to support and conduct current, emerging, and future USAF training activities, while ensuring the capability to meet mission requirements in the event that access to other western Pacific locations is limited or denied. The proposed action is needed because there is not an existing divert or contingency airfield on U.S. territory in the western Pacific that is designed and designated to provide strategic operational and exercise capabilities for U.S. forces when needed and humanitarian assistance and disaster relief in times of natural or man-made disasters. All construction projects must comply with FAA regulations including Orders and Advisory Circulars applicable to commercial airports. In addition, this project will comply with CNMI Public Law 06-45 building codes.</p> <p>CURRENT SITUATION: A redundant airfield, with a required fuel depot and refueling capability/facilities for refueling aircraft that support multiple military activities/missions does not exist in the CNMI.</p> <p>IMPACT IF NOT PROVIDED: Without this apron and taxiway system, there is not adequate aircraft parking and in-ground re-fueling capability to conduct USAF refueling operation missions from the CNMI. CNMI's strategic location is vital to PACOM/PACAF emerging/future missions/activities for divert tanker aircraft to effectively respond to natural disaster/humanitarian relief efforts in the area.</p> <p>ADDITIONAL: This design shall conform to criteria established in the Air Force Corporate Facilities Standards but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard from the Navy design agent. A Waiver to an Economic Analysis has been approved for this project. This project complies with the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." Supporting Facility costs exceed 25% of the cost of Primary Facilities due to the extensive costs of site improvements and the associated Explosive Safety clearance requirements. This project does not fall within or partly within the 100-year flood plain. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: PARKING APRON, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER PAF189022	8. PROJECT COST (\$000) AUTH: 0 APPR: 41,000
<p>systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements is partially compliant or not applicable. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01, Department of Defense Minimum Antiterrorism Standards for Buildings.</p> <p>Base Civil Engineer: 808-449-3810</p> <p>Apron: 152,411 SM = 1,640,538 SF;</p> <p>Taxiway: 39,783 SM = 428,221 SF;</p> <p>Shoulder: 37,726 SM = 406,079 SF</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022																												
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<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Type of Design</td> <td>Design-Bid-Build</td> </tr> <tr> <td>(b) Date Design Started</td> <td>25-JAN-19</td> </tr> <tr> <td>(c) Parametric Cost Estimates used to develop costs</td> <td>YES</td> </tr> <tr> <td>(d) Percent Complete as of 01 JAN 2021</td> <td>100 %</td> </tr> <tr> <td>(e) Date 35% Designed</td> <td>15-MAR-19</td> </tr> <tr> <td>(f) Date Design Complete</td> <td>21-MAY-20</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was performed</td> <td>YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td>N/A</td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>5,880</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>2,940</td> </tr> <tr> <td>(c) Total</td> <td>8,820</td> </tr> <tr> <td>(d) Contract</td> <td>7,350</td> </tr> <tr> <td>(e) In-house</td> <td>1,470</td> </tr> </table> <p>(4) Construction Contract Award 21-NOV</p> <p>(5) Construction Start 22-JAN</p> <p>(6) Construction Completion 25-OCT</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>					(a) Type of Design	Design-Bid-Build	(b) Date Design Started	25-JAN-19	(c) Parametric Cost Estimates used to develop costs	YES	(d) Percent Complete as of 01 JAN 2021	100 %	(e) Date 35% Designed	15-MAR-19	(f) Date Design Complete	21-MAY-20	(g) Energy Study/Life-Cycle analysis was performed	YES	(a) Standard or Definitive Design -	NO	(b) Where Design Was Most Recently Used -	N/A	(a) Production of Plans and Specifications	5,880	(b) All Other Design Costs	2,940	(c) Total	8,820	(d) Contract	7,350	(e) In-house	1,470
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1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: PARKING APRON, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER PAF189022	8. PROJECT COST (\$000) AUTH: 0 APPR: 41,000
c. Title, Authorization, and Appropriations Summary:			
FY2020 Title is "PARKING APRON" FY2023 Proposed Title Change is "PDI: PARKING APRON, INC 2"			
	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2020 Enacted	98,000	25,000	25,000
FY2023 Budget Request	-----	41,000	41,000
Future Request	-----	32,000	32,000
<b>Total</b>	<b>98,000</b>		<b>98,000</b>

**Project: PDI: Parking Apron, Inc 2, Tinian, CNMI**

**Project Spending Plan**

As of: 6-Mar-22

All Cost in thousands (\$000)

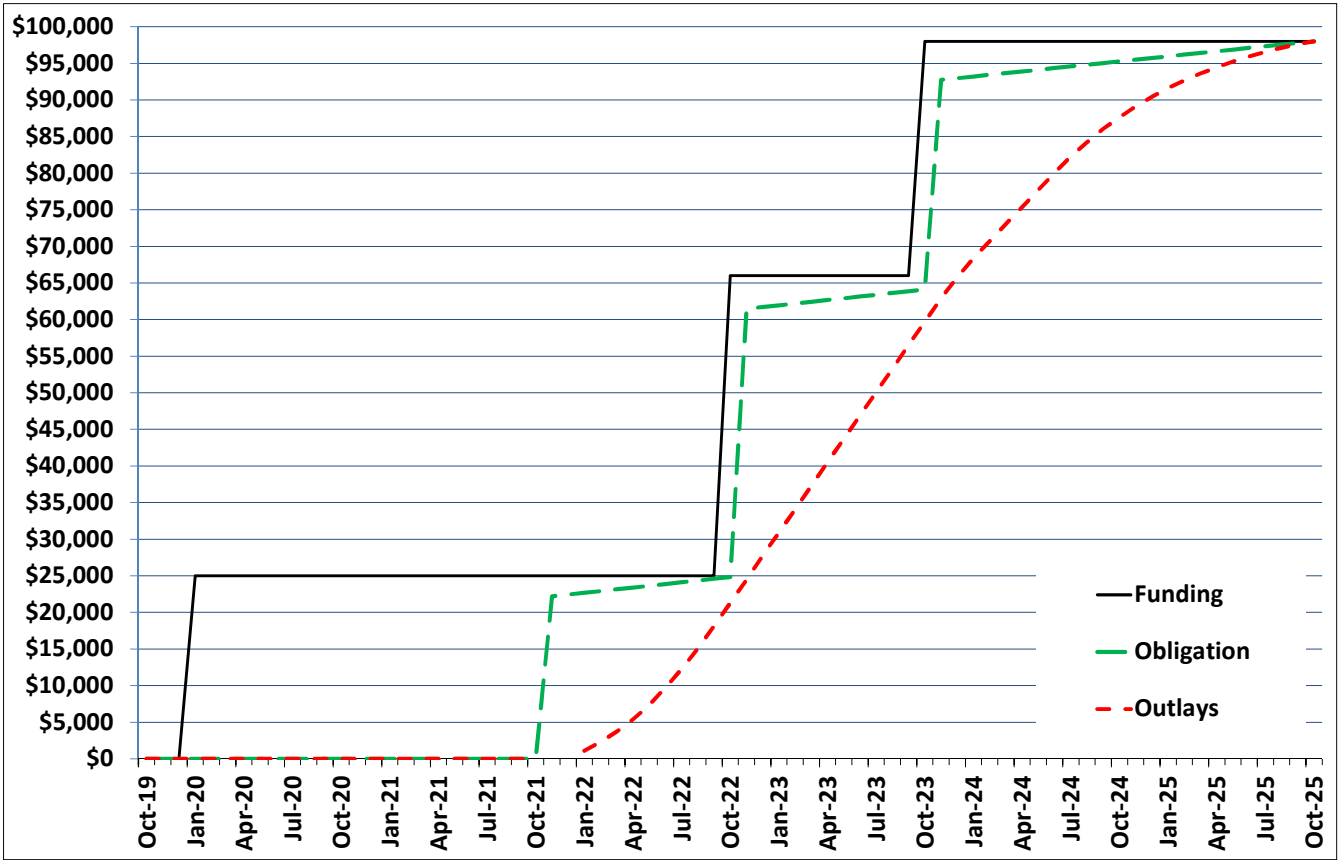
Chart Begin Oct-19	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-19	-	-	-	-	-	-
Nov-19	-	-	-	-	-	-
Dec-19	-	-	-	-	-	-
Jan-20	25,000	25,000	-	-	-	-
Feb-20	-	25,000	-	-	-	-
Mar-20	-	25,000	-	-	-	-
Apr-20	-	25,000	-	-	-	-
May-20	-	25,000	-	-	-	-
Jun-20	-	25,000	-	-	-	-
Jul-20	-	25,000	-	-	-	-
Aug-20	-	25,000	-	-	-	-
Sep-20	-	25,000	-	-	-	-
Oct-20	-	25,000	-	-	-	-
Nov-20	-	25,000	-	-	-	-
Dec-20	-	25,000	-	-	-	-
Jan-21	-	25,000	-	-	-	-
Feb-21	-	25,000	-	-	-	-
Mar-21	-	25,000	-	-	-	-
Apr-21	-	25,000	-	-	-	-
May-21	-	25,000	-	-	-	-
Jun-21	-	25,000	-	-	-	-
Jul-21	-	25,000	-	-	-	-
Aug-21	-	25,000	-	-	-	-
Sep-21	-	25,000	-	-	-	-
Oct-21	-	25,000	-	-	-	-
Nov-21	-	25,000	22,200	22,200	-	-
Dec-21	-	25,000	239	22,439	-	-
Jan-22	-	25,000	239	22,678	1,100	1,100
Feb-22	-	25,000	239	22,917	1,200	2,300
Mar-22	-	25,000	239	23,156	1,400	3,700
Apr-22	-	25,000	239	23,395	1,700	5,400
May-22	-	25,000	239	23,634	2,000	7,400
Jun-22	-	25,000	239	23,873	2,300	9,700
Jul-22	-	25,000	239	24,112	2,600	12,300
Aug-22	-	25,000	239	24,351	2,800	15,100
Sep-22	-	25,000	239	24,590	3,000	18,100
Oct-22	41,000	66,000	239	24,829	3,200	21,300
Nov-22	-	66,000	36,647	61,476	3,200	24,500
Dec-22	-	66,000	239	61,715	3,200	27,700
Jan-23	-	66,000	239	61,954	3,200	30,900
Feb-23	-	66,000	239	62,193	3,200	34,100
Mar-23	-	66,000	239	62,432	3,200	37,300
Apr-23	-	66,000	239	62,671	3,200	40,500
May-23	-	66,000	239	62,910	3,200	43,700
Jun-23	-	66,000	239	63,149	3,200	46,900
Jul-23	-	66,000	239	63,388	3,200	50,100
Aug-23	-	66,000	239	63,627	3,200	53,300
Sep-23	-	66,000	239	63,866	3,200	56,500
Oct-23	32,000	98,000	239	64,105	3,200	59,700
Nov-23	-	98,000	28,645	92,750	3,200	62,900
Dec-23	-	98,000	229	92,979	2,880	65,780
Jan-24	-	98,000	229	93,208	2,592	68,372
Feb-24	-	98,000	229	93,437	2,333	70,705
Mar-24	-	98,000	229	93,666	2,333	73,038
Apr-24	-	98,000	229	93,895	2,333	75,370
May-24	-	98,000	229	94,124	2,333	77,703
Jun-24	-	98,000	229	94,353	2,333	80,036
Jul-24	-	98,000	229	94,582	2,216	82,252
Aug-24	-	98,000	229	94,811	1,995	84,247
Sep-24	-	98,000	229	95,040	1,795	86,042
Oct-24	-	98,000	229	95,269	1,616	87,657
Nov-24	-	98,000	229	95,498	1,454	89,111
Dec-24	-	98,000	229	95,727	1,309	90,420
Jan-25	-	98,000	229	95,956	1,178	91,598
Feb-25	-	98,000	229	96,185	1,060	92,658
Mar-25	-	98,000	229	96,414	954	93,612
Apr-25	-	98,000	229	96,643	859	94,470
May-25	-	98,000	229	96,872	773	95,243
Jun-25	-	98,000	229	97,101	695	95,939
Jul-25	-	98,000	229	97,330	626	96,564
Aug-25	-	98,000	229	97,559	563	97,128
Sep-25	-	98,000	229	97,788	507	97,635
Oct-25	-	98,000	212	98,000	365	98,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2020.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award date of November 2021, Contract completion: October 2025, Duration 47 months

**PDI: Parking Apron, Inc 2; Tinian, CNMI**



<b>1. COMPONENT</b> AIR FORCE		<b>FY</b> <u>2023</u> <b>MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20220308				
<b>3. INSTALLATION AND LOCATION</b> PAPA AIR BASE, HUNGARY					<b>4. COMMAND</b> UNITED STATES AIR FORCES IN EUROPE			<b>5. AREA CONSTRUCTION COST INDEX</b> 0.75			
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
		<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF 30-SEP-21		0	0	0	0	0	0	5	50	0	55
b. END FY		0	0	0	0	0	0	5	50	0	55
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE										0	
b. INVENTORY TOTAL AS OF 30-SEP-21										0.00	
c. AUTHORIZATION NOT YET IN INVENTORY										0.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										71,000.00	
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										71,000.00	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>											
<b>a. CATEGORY</b>				<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>					
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>		<b>(3) SCOPE</b>			<b>(1) START</b>	<b>(2) COMPLETE</b>				
442-758	EDI: DABS-FEV Storage		14,115 SM		71,000	05/20	03/22				
<b>9. FUTURE PROJECTS</b>											
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
Papa Air Base in Hungary is home to a heavy Airlift Wing. The wing's purpose is to execute the Strategic Airlift Capability arrangement whereby twelve NATO nations have come together to jointly own and operate a trio of C-17 heavy cargo aircraft, sharing flying hours and costs according to their various needs.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>											
N/A											



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION PÁPA AIR BASE, HUNGARY		4. PROJECT TITLE EDI: DABS-FEV STORAGE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER LHPA220001	8. PROJECT COST (\$000) 71,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				47,577
WAREHOUSE SUPPLY AND EQUIPMENT BASE (442-758)	SM	14,115	1,910	(26,960)
CONTROLLED HUMIDITY WAREHOUSE (442-421)	SM	6,143	2,003	(12,304)
VEHICLE MAINTENANCE SHOP (214-425)	SM	2,216	2,808	(6,223)
GANTRY/BRIDGE CRANE (890-154)	LS			(350)
VEHICLE FUELING STATION (123-335)	OL	4	145,000	(580)
CYBERSECURITY OF FAC-RELATED CONTL SYS	LS			(1,160)
SUPPORTING FACILITIES				16,029
UTILITIES	LS			(5,125)
PAVEMENTS	LS			(6,239)
SITE IMPROVEMENTS	LS			(3,340)
PASSIVE FORCE PROTECTIVE MEASURES	LS			(400)
DEMOLITION OF NON U.S. REAL PROPERTY	SM	3,400	242	(823)
ENVIRONMENTAL MITIGATION	LS			(102)
SUBTOTAL				63,606
CONTINGENCY (5.0%)				3,180
TOTAL CONTRACT COST				66,786
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				4,341
TOTAL REQUEST				71,127
TOTAL REQUEST (ROUNDED)				71,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(0)
10. DESCRIPTION OF PROPOSED WORK: Construct controlled humidity warehouses, supply and equipment warehouses, vehicle fueling station and vehicle maintenance shop at Pápa Air Base, Hungary for Deployable Air Base Systems - Facilities, Equipment and Vehicles assets. Facilities provide materiel and vehicle storage, administrative and maintenance support, and a telecommunications hub. The facilities include overhead bridge crane, a central wash facility, a weight scale, load banks, alarm systems, lightning protection, overvoltage protection, closed-circuit television, and information systems connectivity. Supporting facilities include vehicle parking; security fencing and gates; loading and unloading area; environmental mitigation; site improvements (landscaping, grading, and paving); site utility systems (electrical, communication, gas, domestic fire and water, aboveground fire				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION PÁPA AIR BASE, HUNGARY		4. PROJECT TITLE EDI: DABS-FEV STORAGE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER LHPA220001	8. PROJECT COST (\$000) 71,000	
<p>suppression water storage tank, sewer, and stormwater); and the demolition of 15 abandoned Hungarian Air Force facilities (total 3,400 SM). Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facility Criteria 4-010-01 and Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements.</p> <p>Air Conditioning: 15 Tons</p>				
<p>11. Requirement: 14,115 SM      Adequate: 0 SM      Substandard: 0 SM</p> <p>PROJECT: EDI: DABS-FEV STORAGE</p> <p>REQUIREMENT: This project is in support of the European Deterrence Initiative, which includes military exercises and training on land, in the air, and at sea while sustaining a rotational presence throughout Europe. A key enabler for training and operations is infrastructure at key locations to support military activities. To support this initiative, United States Air Forces Europe requires humidity-controlled, ventilated, and heated storage spaces for Deployable Air Base Systems assets, as well as supporting administrative and maintenance spaces in the European area of responsibility. This project will improve United States Air Forces Europe's mission readiness by ensuring the equipment and vehicles comprising the Deployable Air Base System assets are protected from the elements and maintained in a condition of constant readiness.</p> <p>CURRENT SITUATION: Pápa Air Base, Hungary has no adequate immediate reaction capability to provide forward support to United States Air Forces Europe contingency operations in the region. Currently, zero percent of the total United States requirement necessary to sustain planned European Deterrence Initiative operations is available for this new mission. Existing storage and maintenance facilities are fully engaged by the Host Nation and are not large enough to support Deployable Air Base Systems assets, prohibiting their use by the United States government. The local climate is not compatible with storing the required vehicles and equipment outside of a humidity-controlled environment. Base-wide roads cannot support exercising the Deployable Air Base Systems vehicles' weights or turning radii.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, Pápa Air Base will have no readily available storage or maintenance for Deployable Air Base Systems materiel. The lack of properly sized and configured humidity-controlled and ventilated storage spaces will prevent United States Air Forces Europe/United States Air Forces Africa from properly staging valuable assets at this location. Exposure to excessive moisture will degrade and damage the</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION PÁPA AIR BASE, HUNGARY		4. PROJECT TITLE EDI: DABS-FEV STORAGE	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER LHPA220001	8. PROJECT COST (\$000) 71,000

materiel and vehicles. Deployment and use of the Deployable Air Base Systems - equipment and vehicles will be delayed while urgent repairs are made to restore the equipment and vehicles to their required operability standards.

ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements, as well as Bi-Strategic Commands Directive 85-5, North Atlantic Treaty Organization Approved Criteria and Standards for Airfields. The Supporting Facilities costs exceed 25% of the Primary Facilities costs due to extensive site preparation, utility connections, and pavements work required to make this a complete and usable facility. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from the United States Army Corps of Engineers. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plan. The facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. An Economic Analysis was not performed because after an analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements; new construction. A Waiver to an Economic Analysis has been approved for this project. This project will be submitted for North Atlantic Treaty Organization pre-financing. Although not currently part of an approved North Atlantic Treaty Organization capability package, a precautionary pre-finance statement will be filed for this project to allow possible future recoupment if the project becomes a North Atlantic Treaty Organization capability.

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION PÁPA AIR BASE, HUNGARY		4. PROJECT TITLE EDI: DABS-FEV STORAGE	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER LHPA220001	8. PROJECT COST (\$000) 71,000
<p>Base Civil Engineer commercial phone number +49 6371-47-6773</p> <p>Warehouse Supply And Equipment Base: 14,115 SM = 151,933 Square Feet;  Controlled Humidity Warehouse: 6,143 SM = 66,123 Square Feet;  Vehicle Maintenance Shop: 2,216 SM = 23,853 Square Feet;  Demolition: 3,400 SM = 36,597 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION PÁPA AIR BASE, HUNGARY		4. PROJECT TITLE EDI: DABS-FEV STORAGE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER LHPA220001	8. PROJECT COST (\$000) 71,000	
12. SUPPLEMENTAL DATA:				
a. Estimated Design Data:				
(1) Status:				
(a) Type of Design	Design-Bid-Build			
(b) Date Design Started	14-MAY-20			
(c) Parametric Cost Estimates Used to develop costs	YES			
(d) Percent Complete as of 01 JAN 2022	35%			
(e) Date 35% Designed	26-FEB-21			
(f) Date Design Complete	31-MAR-22			
(g) Energy Study/Life-Cycle analysis was/will be performed	YES			
(2) Basis:				
(a) Standard or Definitive 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	4,260			
(b) All Other Design Costs	2,130			
(c) Total	6,390			
(d) Contract	5,325			
(e) In-house	1,065			
(4) Construction Contract Award	23-JUN			
(5) Construction Start	23-JUL			
(6) Construction Completion	25-AUG			
b. Equipment associated with this project provided from other appropriations:				
EQUIPMENT NOMENCLATURE	PROCURING APPROP	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)	
N/A				

<b>1. COMPONENT</b> AIR FORCE			<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE (YYYYMMDD)</b> 20220308			
<b>3. INSTALLATION AND LOCATION</b> KEFLAVIK NAVAL AIR STATION, ICELAND						<b>4. COMMAND</b> UNITED STATES AIR FORCES IN EUROPE			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.72			
<b>6. PERSONNEL</b>			<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
			<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF 30-SEP-21			0	0	0	0	0	0	5	50	0	55
b. END FY			0	0	0	0	0	0	5	50	0	55
<b>7. INVENTORY DATA (\$000)</b>												
a. TOTAL ACREAGE										0		
b. INVENTORY TOTAL AS OF 30-SEP-21										0.00		
c. AUTHORIZATION NOT YET IN INVENTORY										71,000.00		
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										94,000.00		
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00		
f. PLANNED IN NEXT THREE PROGRAM YEARS										39,000.00		
g. REMAINING DEFICIENCY										0.00		
h. GRAND TOTAL										204,000.00		
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>												
<b>a. CATEGORY</b>						<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>				
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>				<b>(3) SCOPE</b>				<b>(1) START</b>	<b>(2) COMPLETE</b>		
442-758	EDI: DABS-FEV Storage				7,144 SM		94,000		03/20	08/21		
<b>9. FUTURE PROJECTS</b> 124-135 EDI: POL Storage (7,500 CM/\$39,000)												
<b>10. MISSION OR MAJOR FUNCTIONS</b> Provides one of the primary sources for U.S. European Command (EUCOM) and its Service Component's ability to respond to an evolving European security environment.												
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b> N/A												

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION KEFLAVIK NAS ICELAND		4. PROJECT TITLE EDI: DABS-FEV STORAGE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER BIKF220001	8. PROJECT COST (\$000) 94,000	
9. COST ESTIMATES				
ITEM	U/M	QTY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				64,199
WAREHOUSE SUPPLY AND EQUIPMENT BASE (442-758)	SM	7,144	4,210	(30,076)
CONTROLLED HUMIDITY WAREHOUSE (442-421)	SM	3,236	5,010	(16,212)
VEHICLE MAINTENANCE SHOP (214-425)	SM	1,813	8,225	(14,912)
GANTRY/BRIDGE CRANE (890-154)	LS			(350)
VEHICLE FUELING STATION (123-335)	OL	4	220,000	(880)
CENTRAL WASH FACILITY (149-628)	SM	150	1,350	(203)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(1,566)
SUPPORTING FACILITIES				20,029
UTILITIES	LS			(8,139)
PAVEMENTS	LS			(5,135)
SITE IMPROVEMENTS	LS			(6,105)
PASSIVE FORCE PROTECTIVE MEASURES	LS			(650)
SUBTOTAL				84,228
CONTINGENCY (5.0%)				4,211
TOTAL CONTRACT COST				88,439
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				5,749
TOTAL REQUEST				94,188
TOTAL REQUEST (ROUNDED)				94,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(0)
10. DESCRIPTION OF PROPOSED WORK: Construct controlled humidity warehouse, supply and equipment warehouses, vehicle fueling station, central wash facility and vehicle maintenance shop of structural metal frame, metal panel walls and roof, and concrete foundation. Facilities are to provide materiel and vehicle storage, administrative and maintenance support for the Deployable Air Base Systems - Facilities, Equipment and Vehicles assets. The facilities include overhead bridge cranes, lightning protection, overvoltage protection, closed-circuit television, and information systems connectivity. Supporting facilities include vehicle parking; security fencing with gate; security entry control building; shed supplies and equipment depot; scale; material processing depots for hazardous materials and petroleum oil and lubricants; loading and unloading area; environmental mitigation; site improvements (landscaping, grading, and paving); and site utility systems (electrical, communications, water sanitary sewer, and storm water).				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION KEFLAVIK NAS ICELAND		4. PROJECT TITLE EDI: DABS-FEV STORAGE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER BIKF220001	8. PROJECT COST (\$000) 94,000	
<p>Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facility Criteria 4-010-01 and Unified Facilities Criteria 1-200-02.</p> <p>Air Conditioning: 45 Tons</p>				
<p>11. Requirement: 7,144 SM      Adequate: 0 SM      Substandard: 0 SM</p> <p>PROJECT: EDI: DABS-FEV STORAGE</p> <p>REQUIREMENT: This project is in support of the European Deterrence Initiative, which includes military exercises and training on land, in the air, and at sea while sustaining a rotational presence throughout Europe. A key enabler for training and operations is infrastructure at key locations to support military activities. To support this initiative, Keflavik Naval Air Station requires humidity-controlled, ventilated, and heated storage spaces for Deployable Air Base Systems - Facilities, Equipment and Vehicles assets, as well as supportive administrative and maintenance spaces.</p> <p>CURRENT SITUATION: No facilities are present at Keflavik Naval Air Station that meet the requirements of this project. The high-humidity climate is not compatible with storing the required material and vehicles outside of a humidity-controlled environment.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, Keflavik Naval Air Station will not have readily available storage for Deployable Air Base materiel and vehicles. The lack of properly sized and configured humidity-controlled and ventilated storage spaces will force United States Air Forces Europe to make use of available open storage areas and expedient shelters that will not fully protect these valuable assets from extreme climatic condition variations. Exposure to excessive moisture will degrade and potentially damage the deployable air base systems materiel and vehicles. Consequently, urgent repairs to restore the materiel and vehicles to the operability standards will cause a high risk of delaying employment. This project will improve United States Air Forces Europe's mission readiness by ensuring that the deployable air base systems vehicles and materiel are protected from the elements and maintained in a condition of constant readiness.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements, as well as Bi-Strategic Commands Directive 85-5, North Atlantic Treaty Organization Approved Criteria and Standards for Airfields. The Supporting Facilities costs exceed 25% of the Primary Facilities costs due to extensive site preparation, utility connections, and pavements work required to make</p>				



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION KEFLAVIK NAS ICELAND		4. PROJECT TITLE EDI: DABS-FEV STORAGE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER BIKF220001	8. PROJECT COST (\$000) 94,000	
<p>this a complete and usable facility. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. Sustainable principles, to include life-cycle cost- effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plan. The facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. An Economic Analysis was not performed because after an analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements; new construction. This project will be submitted for North Atlantic Treaty Organization pre-financing. Although not currently part of an approved North Atlantic Treaty Organization capability package, a precautionary pre-finance statement will be filed for this project to allow possible future recoupment if the project becomes a North Atlantic Treaty Organization capability.</p> <p>Base Civil Engineer commercial phone number +49 6371-47-6773</p> <p>Warehouse Supply And Equipment Base: 7,144 SM = 76,897 Square Feet; Controlled Humidity Warehouse: 3,236 SM = 34,832 Square Feet; Vehicle Maintenance Shop: 1,813 SM = 19,515 Square Feet.</p> <p>Foreign Currency Fluctuation Budget Rate Used: 1 USD / 125.0912 Krona</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION KEFLAVIK NAS ICELAND		4. PROJECT TITLE EDI: DABS-FEV STORAGE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER BIKF220001	8. PROJECT COST (\$000) 94,000	
12. SUPPLEMENTAL DATA:				
a. Estimated Design Data:				
(1) Status:				
(a) Type of Design	Design-Bid-Build			
(b) Date Design Started	2-MAR-20			
(c) Parametric Cost Estimates Used to develop costs	YES			
(d) Percent Complete as of 01 JAN 2022	100%			
(e) Date 35% Designed	13-AUG-20			
(f) Date Design Complete	27-AUG-21			
(g) Energy Study/Life-Cycle analysis was/will be performed	YES			
(2) Basis:				
(a) Standard or Definitive 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	5,640			
(b) All Other Design Costs	2,820			
(c) Total	8,460			
(d) Contract	7,050			
(e) In-house	1,410			
(4) Construction Contract Award	23-FEB			
(5) Construction Start	23-APR			
(6) Construction Completion	25-OCT			
b. Equipment associated with this project provided from other appropriations:				
		FISCAL YEAR		
		APPROPRIATED		COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)	
N/A				

**Project: EDI: DABS-FEV Storage, Keflavik, Iceland**

**Project Spending Plan**

As of: 6-Mar-22

All Cost in thousands (\$000)

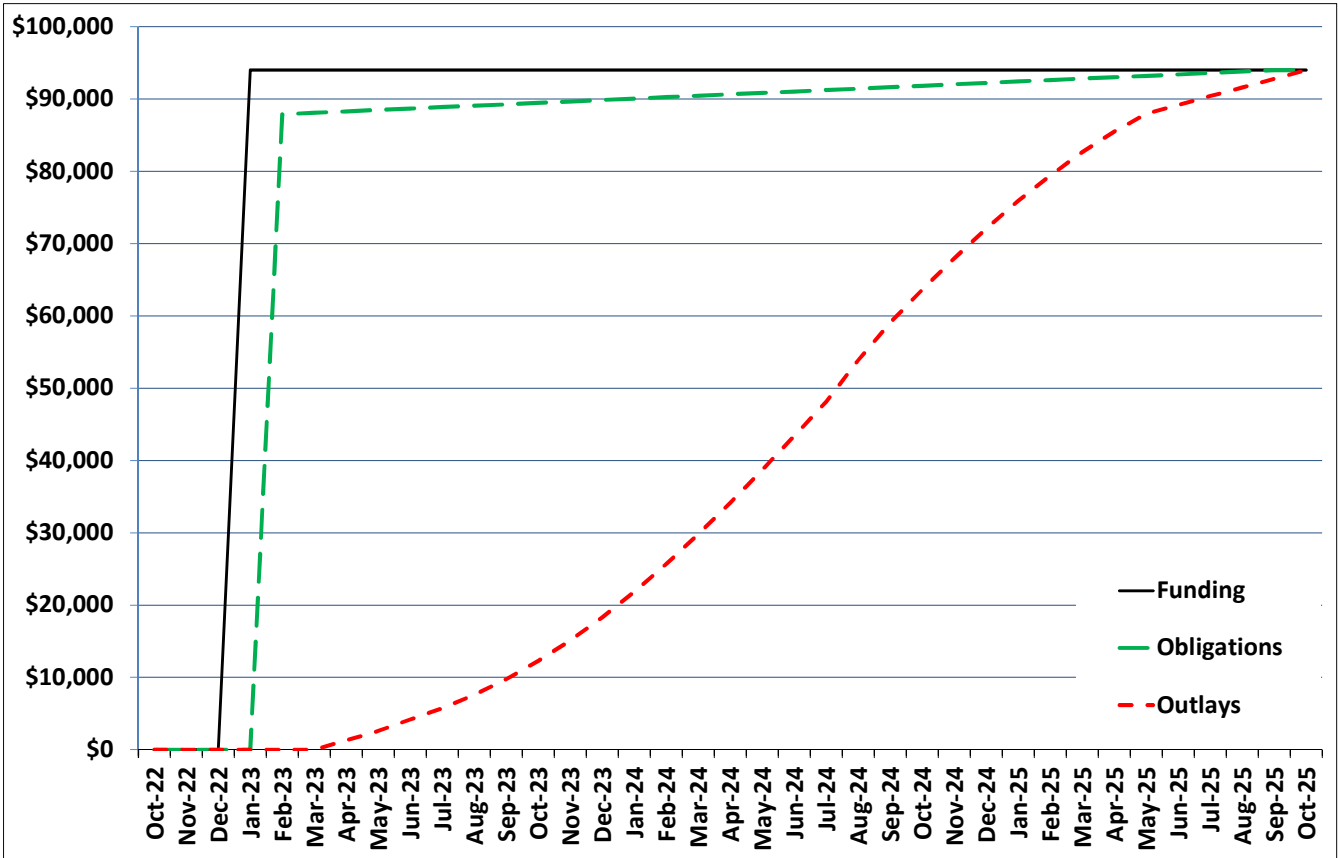
Chart Begin	FUNDING (note 1)		OBLIGATIONS (note 2)		OUTLAYS (note 3)	
Month-Yr	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-22	-	-	-	-	-	-
Nov-22	-	-	-	-	-	-
Dec-22	-	-	-	-	-	-
Jan-23	94,000	94,000	-	-	-	-
Feb-23	-	94,000	87,890	87,890	-	-
Mar-23	-	94,000	197	88,087	-	-
Apr-23	-	94,000	197	88,284	1,303	1,303
May-23	-	94,000	197	88,481	1,303	2,606
Jun-23	-	94,000	197	88,678	1,567	4,173
Jul-23	-	94,000	197	88,875	1,567	5,740
Aug-23	-	94,000	197	89,072	1,859	7,599
Sep-23	-	94,000	197	89,269	2,173	9,772
Oct-23	-	94,000	197	89,466	2,505	12,277
Nov-23	-	94,000	197	89,663	2,846	15,123
Dec-23	-	94,000	197	89,860	3,189	18,312
Jan-24	-	94,000	197	90,057	3,522	21,834
Feb-24	-	94,000	197	90,254	3,836	25,669
Mar-24	-	94,000	197	90,451	4,118	29,787
Apr-24	-	94,000	197	90,648	4,359	34,146
May-24	-	94,000	197	90,845	4,548	38,694
Jun-24	-	94,000	197	91,042	4,680	43,374
Jul-24	-	94,000	197	91,239	4,746	48,120
Aug-24	-	94,000	197	91,436	5,746	53,866
Sep-24	-	94,000	197	91,633	5,197	59,063
Oct-24	-	94,000	197	91,830	4,548	63,611
Nov-24	-	94,000	197	92,027	4,359	67,970
Dec-24	-	94,000	197	92,224	4,118	72,088
Jan-25	-	94,000	197	92,421	3,836	75,923
Feb-25	-	94,000	197	92,618	3,522	79,446
Mar-25	-	94,000	197	92,815	3,189	82,634
Apr-25	-	94,000	197	93,012	2,846	85,481
May-25	-	94,000	197	93,209	2,505	87,985
Jun-25	-	94,000	197	93,406	1,203	89,188
Jul-25	-	94,000	197	93,603	1,203	90,391
Aug-25	-	94,000	197	93,800	1,203	91,594
Sep-25	-	94,000	197	93,997	1,203	92,797
Oct-25	-	94,000	3	94,000	1,203	94,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2023.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award date of February 2023, Contract completion: October 2025, Duration 32 months.

# EDI: DABS-FEV Storage, Keflavik, Iceland



<b>1. COMPONENT</b> AIR FORCE			<b>FY</b> <u>2023</u> <b>MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE (YYYYMMDD)</b> 20220308			
<b>3. INSTALLATION AND LOCATION</b> AVIANO AIR BASE, ITALY						<b>4. COMMAND</b> UNITED STATES AIR FORCES IN EUROPE			<b>5. AREA CONSTRUCTION COST INDEX</b> 0.98			
<b>6. PERSONNEL</b>			<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
			<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF 30-SEP-21			352	3,672	615	0	0	0	8	98	24	4,769
b. END FY			352	3,680	613	0	0	0	8	98	24	4,775
<b>7. INVENTORY DATA (\$000)</b>												
a. TOTAL ACREAGE										1,353		
b. INVENTORY TOTAL AS OF 30-SEP-21										2,657,040.00		
c. AUTHORIZATION NOT YET IN INVENTORY										27,325.00		
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										46,500.00		
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00		
f. PLANNED IN NEXT THREE PROGRAM YEARS										35,000.00		
g. REMAINING DEFICIENCY										239,800.00		
h. GRAND TOTAL										3,005665.00		
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>												
<b>a. CATEGORY</b>						<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>				
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>				<b>(3) SCOPE</b>				<b>(1) START</b>	<b>(2) COMPLETE</b>		
171-212	COMBAT RESCUE HELICOPTER SIMULATION FAC				870 SM		15,500		07/21	07/22		
442-758	EDI: RADR STORAGE FACILITY				5,957 SM		31,000		01/21	02/22		
<b>9. FUTURE PROJECTS</b>												
124-135 EDI: POL STORAGE (\$35,000)												
<b>10. MISSION OR MAJOR FUNCTIONS</b>												
As the only fighter wing south of the Alps, the mission of the 31st Fighter Wing at Aviano Air Base is to conduct air and space combat and combat support operations in Europe's Southern Region. The 31st FW maintains two F-16 fighter squadrons, the 555th Fighter Squadron and the 510th Fighter Squadron, that are capable of conducting offensive and defensive air combat operations sunder NATO, SACEUR or national tasking with conventional and non-conventional munitions.												
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>												
N/A												

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION AVIANO AIR BASE ITALY		4. PROJECT TITLE COMBAT RESCUE HELICOPTER SIMULATOR FAC		
5. PROGRAM ELEMENT 27229F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER ASHE183001	8. PROJECT COST (\$000) 15,500	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				11,576
ADD FLIGHT SIMULATOR TRAINING (171-212)	SM	870	11,995	(10,436)
ALTER SQUADRON OPERATIONS (141-753)	SM	400	2,225	(890)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(250)
SUPPORTING FACILITIES				1,729
UXO REMEDIATION	LS			(534)
SITE PREPARATION	LS			(196)
SITE IMPROVEMENTS	LS			(126)
UTILITIES	LS			(370)
PAVEMENTS	LS			(221)
PASSIVE FORCE PROTECTION MEASURES	LS			(10)
COMMUNICATIONS	LS			(272)
SUBTOTAL				13,305
CONTINGENCY (5.0%)				665
TOTAL CONTRACT COST				13,970
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				866
POST CONSTRUCTION AWARD SERVICES				490
TOTAL REQUEST				15,326
TOTAL REQUEST (ROUNDED)				15,500
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(14,790)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct an addition to and renovate an existing squadron operation facility (Building 7300) to support beddown of the Combat Rescue Helicopter simulator. Alteration work will include renovation of existing facility including removal/alteration of exterior walls, windows, doors, utilities and the roof. The facility will include operational flight trainer and simulator bay, multipurpose mission planning and computer training rooms, and maintenance and utility areas. Construction will consist of reinforced concrete foundations and floor slab, reinforced concrete frame structure with clay block masonry infill, cement plaster stucco, reinforced hollow concrete roof with clay tiles, and the roof slope of the new section will be compatible with the existing facility. The facilities are required to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. An				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION AVIANO AIR BASE ITALY			4. PROJECT TITLE COMBAT RESCUE HELICOPTER SIMULATOR FAC	
5. PROGRAM ELEMENT 27229F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER ASHE183001	8. PROJECT COST (\$000) 15,500	
<p>overhead crane is required to be installed in the simulator bay. The project will include associated utilities, pavements, site improvements including unexploded ordnance survey, communications, passive force protection measures, storm drainage/low impact development, and all necessary supporting work for a complete and useable facility. The facility is intended to be compatible with applicable Department of Defense, United States Air Force, North Atlantic Treaty Organization, and host-nation design standards. Local materials and construction techniques shall be used where required. The design and construction efforts will be executed in accordance with the host-nation agreements, including construction and environmental permits. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building Requirements. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 50 tons</p>				
<p>11. Requirement: 870 SM                      Adequate: 0 SM                      Substandard: 0 SM</p> <p>PROJECT: Combat Rescue Helicopter Simulator Facility</p> <p>REQUIREMENT: An adequately sized and configured facility to house a fixed flight simulator to support the new Combat Rescue Helicopter aircraft. The Combat Rescue Helicopter simulator facility is required to provide realistic aircrew training and aircraft developmental testing in a network simulated airspace. The flight trainer facility contains the crew operational flight simulator, computer and audio visual systems, instructor personnel, and other devices necessary to provide realistic flight operations in a simulated environment. The high operation tempo of the 56th Rescue Squadron makes it necessary to have a flight simulator capability to meet in-aircraft mission training requirements and alleviate high utilization rates and heavy maintenance load of the weapon systems. The simulator provides a training capability that increases familiarization and proficiency in handling aircraft emergencies that cannot be accomplished in live flight. Additionally it provides critical combat personnel recovery and rescue simulations that cannot be replicated in live flight training or at military training ranges, thereby increasing overall combat effectiveness. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: Aviano Air Base does not have personnel recovery and rescue flight trainer facilities or excess space that can be reconfigured to meet flight training and aircraft developmental test requirements. The</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION AVIANO AIR BASE ITALY			4. PROJECT TITLE COMBAT RESCUE HELICOPTER SIMULATOR FAC	
5. PROGRAM ELEMENT 27229F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER ASHE183001	8. PROJECT COST (\$000) 15,500	
<p>56th Rescue Squadron current headquarters, Building 7300, was originally intended to contain simulator and training areas that, due to the scheduled timeline of the new Combat Rescue Helicopter aircraft, were unavailable at the time of its construction. The 56th Rescue Squadron currently exclusively conducts live flight training within the United States European Command theater.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, it will not be possible to conduct current simulator training/new mission testing/flight training for aircrews and associated maintenance personnel of the legacy Combat Rescue Helicopter and the new Combat Rescue Helicopter aircraft. Aircrew members would have to utilize resources at the continental United States bases for required simulation events and this would result in increased temporary duty travel and per diem costs. Current Combat Rescue Helicopter pilots would not have access to the simulator device, resulting in increased aircraft utilization rates, and saturated maintenance workloads.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements, Bi-SC Directive 85-5 North Atlantic Treaty Organization Approved Criteria and the Combat Rescue Helicopter Facility Requirements Plan. All reasonable alternatives were considered during the development of this project to include status quo, new construction, and add/alter. An approved Economic Analysis determined that Add/Alter is the best viable option to meet this requirement. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, and shall employ the Air Force Standard Design Flight Simulator, One and Two-Bay Facility, dated May 2018, and the Combat Rescue Helicopter Tactical Force Response Nellis Air Force Base developed by Sikorsky Aircraft Corp for the Combat Rescue Helicopter trainer, dated February 2019 but will not employ a standard facility design because it will be adding the helicopter simulator onto an existing facility. It will integrate the standard design for the Helicopter Simulator into the existing facility to create an overarching design. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not</p>				



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION AVIANO AIR BASE ITALY			4. PROJECT TITLE COMBAT RESCUE HELICOPTER SIMULATOR FAC	
5. PROGRAM ELEMENT 27229F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER ASHE183001	8. PROJECT COST (\$000) 15,500	
<p>applicable. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This project is not planned to be submitted for North Atlantic Treaty Organization pre-financing.</p> <p>31 Fighter Wing Base Civil Engineer: Comm 39-0434-30-5720</p> <p>ADD FLIGHT SIMULATOR TRAINING: 870 SM = 9,365 Square Feet;</p> <p>ALTER SQUADRON OPERATIONS: 400 SM = 4,306 Square Feet.</p> <p>FOREIGN CURRENCY BUDGET RATED USED: 1 USD / 0.8390 EURO</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION AVIANO AIR BASE ITALY		4. PROJECT TITLE COMBAT RESCUE HELICOPTER SIMULATOR FAC	
5. PROGRAM ELEMENT 27229F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER ASHE183001	8. PROJECT COST (\$000) 15,500
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	21-JUL-21		
(c) Parametric Cost Estimates Used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2022	50%		
(e) Date 35% Designed	31-OCT-21		
(f) Date Design Complete	05-JUL-22		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	YES		
(b) Where Design Was Most Recently Used	NELLIS AFB		
(3) Total Cost (c) = (a) + (b) or (d) + (e)	(\$000)		
(a) Production of Plans and Specifications	480		
(b) All Other Design Costs	240		
(c) Total	720		
(d) Contract	600		
(e) In-house	120		
(4) Construction Contract Award	23-FEB		
(5) Construction Start	23-MAR		
(6) Construction Completion	25-MAR		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
FURNITURE FIXTURES & EQUIPMENT	3400	2024	90
COMMUNICATION EQUIPMENT	3400	2024	100
FLIGHT SIMULATOR EQUIPMENT	3080	2024	14,600

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION AVIANO AIR BASE ITALY		4. PROJECT TITLE EDI: RADR STORAGE FACILITY		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER ASHE223002	8. PROJECT COST (\$000) 31,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				23,686
WAREHOUSE SUPPLY AND EQUIPMENT BASE (442-758)	SM	5,957	2,812	(16,751)
VEHICLE PARKING OPERATIONS (852-261)	SM	16,875	305	(5,147)
PAD, EQUIPMENT OR SUPPORT (132-133)	SM	1,887	345	(651)
VEHICLE PARKING NON ORGANIZATIONAL (852-262)	SM	4,993	112	(559)
CYBERSECURITY OF FACILITY RELATED CONTROL SYS	LS			(578)
SUPPORTING FACILITIES				3,717
UTILITIES	LS			(1,743)
SITE IMPROVEMENTS	LS			(1,349)
SITE WORK	LS			(625)
SUBTOTAL				27,403
CONTINGENCY (5.0%)				1,370
TOTAL CONTRACT COST				28,773
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				1,870
TOTAL REQUEST				30,643
TOTAL REQUEST (ROUNDED)				31,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(0)
10. DESCRIPTION OF PROPOSED WORK: Construct Rapid Airfield Damage Recovery Storage Facilities for a Medium Rapid Airfield Damage Recovery kit comprising warehouse storage for vehicles and equipment with industrial ventilation, freeze protection, a unisex bathroom, and an exterior International Standardization Organization Container Storage Pad. Supporting facilities include site work (landscaping, grading, and paving), site utility systems (electrical, communications, water, wastewater, and stormwater), and demolition and replacement of existing privately owned vehicle parking. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facility Criteria 4-010-01.				
Air Conditioning: 0 Tons				
11. Requirement: 5,957 SM Adequate: 0 SM Substandard: 0 SM PROJECT: EDI: RADR STORAGE FACILITY REQUIREMENT: This project is required to enhance mission-readiness and airfield readiness capabilities at Aviano Air Base, Italy. Substantial infrastructure is				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION AVIANO AIR BASE ITALY		4. PROJECT TITLE EDI: RADR STORAGE FACILITY		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER ASHE223002	8. PROJECT COST (\$000) 31,000	
<p>a key enabler for training and combat operations, including providing Rapid Airfield Damage Recovery capabilities at Main Operating Bases across the European Theater. Construction of Rapid Airfield Damage Recovery Storage Facilities is required to accommodate a Medium Rapid Airfield Damage Recovery kit, comprising three crater repair kits and one foreign object debris removal kit. The Rapid Airfield Damage Recovery kits allow United States forces to quickly deploy to repair runway assets to minimize prolonged airfield closures and disruptions to United States air operations</p> <p>CURRENT SITUATION: There are currently no Rapid Airfield Damage Recovery assets at Aviano Air Base. Existing Warehouse Support and Equipment facilities are dedicated to base support functions and are unavailable for Rapid Airfield Damage Recovery mission use. Open storage is available on undeveloped parcels within Aviano Air Base, however Rapid Airfield Damage Recovery assets are not suitable for long-term storage outside of a protected environment.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, Aviano Air Base will not have readily available material, vehicles, and equipment to conduct necessary expedient airfield damage recovery in a contingency environment. The lack of properly sized and configured vehicle and equipment storage space and pavement for International Standardization Organization container storage will force the United States Air Force in Europe to make use of available open storage areas for vehicles and attachments that will not fully protect these valuable assets from climatic conditions. Exposure to the elements will degrade and potentially damage the Rapid Airfield Damage Recovery vehicles and equipment, reducing the ability to respond in a contingency scenario and increasing the potential for prolonged airfield closure. Consequent urgent repairs to restore the vehicles and attachments to the operability standards will degrade the installation's ability to launch and recover aircraft.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements, as well as Bi-Strategic Commands Directive 85-5, North Atlantic Treaty Organization Approved facilities Standards. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1- 200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. An Economic</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION AVIANO AIR BASE ITALY		4. PROJECT TITLE EDI: RADR STORAGE FACILITY		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER ASHE223002	8. PROJECT COST (\$000) 31,000	
<p>Analysis was not performed because an analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements: new construction. A Waiver to an Economic Analysis has been approved for this project. This project does not fall within or partly within the 100-year flood plan. The facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This project will be submitted for North Atlantic Treaty Organization pre-financing. Although not currently part of an approved North Atlantic Treaty Organization capability package, a precautionary pre-finance statement will be filed for this project to allow possible future recoupment if the project becomes a North Atlantic Treaty Organization capability.</p> <p>Base Civil Engineer commercial phone number: +39 0434.30.5720</p> <p>Warehouse Supply And Equipment Base: 5,957 SM = 64,121 Square Feet;  Vehicle Parking Operations: 16,875 SM = 181,641 Square Feet;  Pad, Equipment Or Support: 1,887 SM = 20,312 Square Feet;  Vehicle Parking Non Organizational: 4,993 SM = 53,744 Square Feet.</p> <p>FOREIGN CURRENCY BUDGET RATE USED: 1 USD / 0.8390 EURO</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION AVIANO AIR BASE ITALY		4. PROJECT TITLE EDI: RADR STORAGE FACILITY		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER ASHE223002	8. PROJECT COST (\$000) 31,000	
12. SUPPLEMENTAL DATA:				
a. Estimated Design Data:				
(1) Status:				
(a) Type of Design	Design-Bid-Build			
(b) Date Design Started	25-JAN-21			
(c) Parametric Cost Estimates Used to develop costs	YES			
(d) Percent Complete as of 01 JAN 2022	95%			
(e) Date 35% Designed	27-SEP-21			
(f) Date Design Complete	22-FEB-22			
(g) Energy Study/Life-Cycle analysis was/will be performed	YES			
(2) Basis:				
(a) Standard or Definitive 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	1,860			
(b) All Other Design Costs	930			
(c) Total	2,790			
(d) Contract	2,325			
(e) In-house	465			
(4) Construction Contract Award	23-FEB			
(5) Construction Start	23-MAR			
(6) Construction Completion	24-SEP			
b. Equipment associated with this project provided from other appropriations:				
		FISCAL YEAR		
EQUIPMENT NOMENCLATURE	PROCURING APPROP	APPROPRIATED OR REQUESTED	COST (\$000)	
N/A				

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE (YYYYMMDD)</b> 20200308			
<b>3. INSTALLATION AND LOCATION</b> KADENA AIR BASE, JAPAN						<b>4. COMMAND</b> PACIFIC AIR FORCES			<b>5. AREA CONSTRUCTION COST INDEX</b> 2.14		
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
		<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF	30-SEP-21	756	5,704	1,347	0	0	0	2,270	17,821	4,155	32,053
b. END FY		756	5,704	1,347	0	0	0	2,270	17,821	4,155	32,053
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE										12,428	
b. INVENTORY TOTAL AS OF 30-SEP-21										14,119,520.00	
c. AUTHORIZATION NOT YET IN INVENTORY										206,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										307,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										60,000.00	
g. REMAINING DEFICIENCY										932,000.00	
h. GRAND TOTAL										15,624,520.00	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>											
<b>a. CATEGORY</b>				<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>					
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>		<b>(3) SCOPE</b>				<b>(1) START</b>	<b>(2) COMPLETE</b>			
141-185	HELO RESCUE OPS MAINTENANCE HANGAR, INC 2		5,503 SM		71,000		08/19	06/21			
211-159	PDI: THEATER A/C CORROSION CONTROL CTR, INC 1		14,160 SM		77,000		11/20	09/22			
<b>9. FUTURE PROJECTS</b>											
211-159 PDI: Theater A/C Corrosion Control Ctr, Inc 2 (14,644 SM/140,000)											
211-159 PDI: Theater A/C Corrosion Control Ctr, Inc 3 (14,644 SM/90,000)											
141-185 Helo Rescue Ops Maintenance Hangar, Inc 3 (5,503 SM/27,000)											
131-111 Theater Strategic Communications Hub (4,698 SM/60,000)											
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
Operating from the largest United States installation in the Asia-Pacific region, the 18th Wing defends United States and Japanese mutual interests by providing a responsive staging and operational air base with integrated, deployable, forward-based air power. Strategy used to employ this mission centers around 93 aircraft comprised of 54 F-15, 15 KC-135, 10 HH-60, 2 E-3, 10 C-130, and 2 RC-135.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>											
N/A											

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE SITE #1 KADENA AIR BASE, JAPAN		4. PROJECT TITLE HELO RESCUE OPS MAINTENANCE HANGAR, INC 2		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-185	7. PROJECT NUMBER LXEZ1069516	8. PROJECT COST (\$000) Auth: 0 Appr: 71,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				117,669
HELICOPTER RESCUE AND RECOVERY HANGAR(141-185)	SM	5,503	11,235	(61,826)
SQUADRON OPERATIONS (141-753)	SM	3,404	6,061	(20,632)
SHOP, AIRCRAFT MAINTENANCE, ORGANIZ (211-154)	SM	2,510	6,238	(15,657)
APRON (113-321)	SM	20,088	292	(5,866)
SHOULDER, PAVED (116-642)	SM	4,306	70	(301)
AIRCRAFT WASHRACK (116-672)	SM	1,270	362	(460)
FLIGHT SIMULATOR TRAINING (171-212)	SM	794	12,880	(10,227)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(2,700)
SUPPORTING FACILITIES				32,649
UTILITIES	LS			(4,928)
SITE IMPROVEMENTS	LS			(18,037)
PAVEMENTS	LS			(1,630)
COMMUNICATIONS	LS			(25)
ENVIRONMENTAL & ARCHAEOLOGICAL MITIGATION	LS			(225)
BACKUP GENERATOR	KW	1,000	424	(424)
DEMOLITION	SM	10,483	704	(7,380)
SUBTOTAL				150,318
CONTINGENCY (5.0%)				7,516
TOTAL CONTRACT COST				157,834
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				10,259
TOTAL REQUEST				168,093
TOTAL REQUEST (ROUNDED)				168,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(15,738)
10. Description of Proposed Construction: Construct a Helicopter Rescue Squadron Operations and Helicopter Maintenance Unit Hangar to support rescue missions for Indo-Pacific Command/Pacific Air Forces at Kadena Air Base. The facility is comprised of single-story bays for aircraft maintenance and storage, a two-story facility for administrative spaces and shops, a simulator bay, and cranes for simulator and hangar. The facility will be constructed of cast-in-place reinforced concrete walls with a reinforced concrete floor and roof slab. The roof structure for the hangar bays will consist of a low sloping arched cast-in-place concrete supported				



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE SITE #1 KADENA AIR BASE, JAPAN		4. PROJECT TITLE HELO RESCUE OPS MAINTENANCE HANGAR, INC 2		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-185	7. PROJECT NUMBER LXEZ1069516	8. PROJECT COST (\$000) Auth: 0    Appr: 71,000	
<p>by structural steel framing. The roof of the squadron operations and Helicopter Maintenance Unit areas will also be constructed using cast-in-place concrete. The project will include supporting facilities such as utilities, pavements, concrete aircraft parking apron, edge lighting on the taxiway connection, exterior aircraft wash rack, backup generator, connection to existing airfield fencing, and site improvements to provide a complete and usable facility. The project demolishes existing facilities to include Building 3534 (10,015 Square Meters), Building 3532 (58 Square Meters), Building 3536 (58 Square Meters), Building 3538 (92 Square Meters), Building 7109 (49 Square Meters), Building 83534 (50 Square Meters), Building 3516 (57 Square Meters), Building 3603 (52 Square Meters) and Building 3604 (52 Square Meters) (Total = 10,483 Square Meters). Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building Requirements. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01, Department of Defense Minimum Antiterrorism Standards for Buildings. As a mission critical facility, a backup generator is authorized per AFI 32-1062.</p> <p>Air Conditioning: 170 Tons</p>				
<p>11. Requirement: 5,503 SM    Adequate: 0 SM    Substandard: 10,483 SM PROJECT: Helicopter Rescue Operations Maintenance Hangar</p> <p>REQUIREMENT: An adequately sized and configured Helicopter Rescue Squadron Operations/Helicopter Maintenance Unit Hangar is required for the 33rd Rescue Squadron and 33rd Helicopter Maintenance Unit at Kadena Air Base. This facility will provide area for operations, maintenance, and storage functions required to support the mission. The 33rd Rescue Squadron is assigned ten HH-60G helicopters which will be replaced by the same number of HH-60W helicopters in Fiscal Year 2024. At least one aircraft is expected to be deployed at all times; therefore, this project only provides maintenance and weather storage space for nine aircraft. The Squadron Operations requires administrative, medical, secure areas, aircrew flight equipment, and storage. The 33rd Helicopter Maintenance Unit requires administrative spaces such as a Command Suite, Air Force Engineering Technical Services office, production office, support office, flight supervisor offices, conference space, a ready room, and locker rooms. The 33rd Helicopter Maintenance Unit maintenance spaces include weapons maintenance and storage, avionics storage, tools and parts, and engine shop. The 33rd Rescue Squadron Simulator provides space to house a fixed flight simulator to support the new combat rescue helicopter. The flight trainer facility will house the full crew operational flight simulator,</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
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<p>computer and audio visual systems, instructor personnel, and other devices necessary to provide realistic flight operations in a simulated environment. The facility will provide space for maintenance, storage, mission planning/brief/de-brief rooms, secure intelligence vault, and administrative support. Site improvements are required and include the demolition of the existing Helicopter Rescue Operations Hangar (Building 3534), along with Building 3532, Building 3536, Building 3538, Building 7109, Building 83534, Building 3516, Building 3603, and Building 3604, to provide space on the site for the new construction of the Helicopter Rescue Squadron Operations/ Helicopter Maintenance Unit Hangar. Additionally, the existing aircraft parking apron will be demolished and reconstructed to six HH-60 helicopter exterior parking spaces and a wash rack. Airfield paving is required to support the parking of six aircraft. Utilities include Heating Ventilation and Air Conditioning system, electrical system, domestic hot and cold water system, sanitary waste and vent system, automatic wet-pipe sprinkler and high-expansion foam fire protection systems, and intrusion detection system. Tie-in to existing airfield fencing is required to secure the flight line. Paved asphalt parking will be provided for personal and government vehicles. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: Currently, there is approximately \$340 million of United States Air Force aircraft vulnerable to typhoon conditions (45 knot winds) for at least 7 events per year due to a lack of adequate aircraft storage for the severe weather conditions. The lack of storage requires aircraft to be folded and stored in another location during weather events. Each folding/unfolding requires 320 personnel hours, which reduces availability of maintenance personnel for routine aircraft maintenance and related functions during this time. In the existing helicopter rescue hangar, Building 3534, there is inadequate maintenance and storage space, which has led to approximately \$750,000 of damaged supplies, parts and gear per year. Re-procurement of damaged items requires approximately 400 personnel hours per year. Occupancy of Building 3534 is a major safety hazard; there are issues with failing debris, pinch points, crush hazards, and manually operated hangar doors that put 33rd Rescue Squadron and 33rd Helicopter Maintenance Unit personnel at risk regularly. Additionally, there is no adequate operations center, which degrades command and control capabilities for approximately two deployments, five rescues, six exercises and forty sorties per year. The current state of Building 3534 is unable to adequately support the mission of the 33rd Rescue Squadron/33rd Helicopter Maintenance Unit mission. Kadena Air Base does not have personnel recovery and rescue flight trainer facilities or excess space that can be reconfigured to meet flight training and aircraft developmental test</p>				

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<p>requirements. The high Operations Tempo of the 33rd Rescue Squadron make it necessary to have a flight simulator capability to meet in-aircraft mission training requirements and alleviate high utilization rates. The simulator provides a training capability that increases familiarization and proficiency in handling aircraft emergencies that cannot be accomplished in live flight. Additionally, it provides critical combat personnel recovery and rescue simulations that cannot be replicated in live flight training or at military training ranges, thereby increasing overall combat effectiveness.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, aircraft will be vulnerable to typhoon conditions that can significantly damage or remove aircraft from operations, and maintenance personnel will be required to prioritize folding/unfolding aircraft over aircraft maintenance activities. Also, the United States Air Force will continue to be impacted by the cost of loss of equipment and personnel hours due to lack of storage and re-procurement processes. If this project is not provided, the United States Air Force will assume the risk of safety hazard for personnel occupying Building 3534 and allow degraded command and control of helicopter rescue operations. The current inadequate facilities do not support the helicopter rescue missions that directly support Indo-Pacific Command/Pacific Air Force's theater stability and positioning for contingency objectives. Without the flight simulator space, it will not be possible to conduct current simulator training/new mission testing/flight training for aircrews and associated maintenance personnel of the legacy HH-60 and the new combat rescue helicopter. Aircrew members would have to utilize resources at Contiguous United States bases for required simulation events and this would result in increased temporary duty travel and per diem costs. Current HH-60 pilots would not have access to the simulator device, resulting in increased aircraft utilization rates, and saturated maintenance workloads.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard design from the Air Force Civil Engineer Center nor the U.S. Army Corps of Engineers. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. An approved Economic Analysis determined new construction as the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
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<p>includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost-effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements is partially compliant or not applicable. This project is eligible for host nation funding; however, the United States Forces, Japan states the project has extremely little chance of being funded by the host nation in the foreseeable future. Supporting Facility costs are greater than 25% of the Primary Facility costs due to extensive site improvements (i.e., excavation, cut, and fill) and removal/reconstruction of existing airfield pavements. This project does not fall within or partially within a 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>18 Civil Engineer Group: 011-81-98-960-1807 718 Civil Engineer Squadron: 011-81-98-960-0718 FOREIGN CURRENCY BUDGET RATE USED: 1 USD / 109.7015 YEN</p> <p>HANGAR MAINTENANCE (141-185): 5,503 SM = 59,234 Square Feet. SQUADRON OPERATIONS (141-753): 3,404 SM = 36,640 Square Feet. HELICOPTER MAINTENANCE SHOP (211-154): 2,510 SM = 27,017 Square Feet. APRON (113-321): 20,088 SM = 216,225 Square Feet. SHOULDER, PAVED (116-642): 4,306 SM = 46,349 Square Feet. AIRCRAFT WASHRACK (116-672): 1,270 SM = 13,670 Square Feet. FLIGHT SIMULATOR TRAINING (171-212): 794 SM = 8,547 Square Feet. DEMOLITION: 10,483 SM = 112,838 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

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12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Type of Design	Design-Bid-Build
(b) Date Design Started	16-AUG-19
(c) Parametric Cost Estimates Used to develop costs	YES
(d) Percent Complete as of 01 JAN 2022	100%
(e) Date 35% Designed	20-FEB-20
(f) Date Design Complete	12-JUN-21
(g) Energy Study/Life-Cycle analysis was/will be performed	YES

(2) Basis:

(a) Standard or Definitive 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	9,780
(b) All Other Design Costs	4,890
(c) Total	14,670
(d) Contract	12,225
(e) In-house	2,445

(4) Construction Contract Award 22-SEP

(5) Construction Start 22-OCT

(6) Construction Completion 25-OCT

b. Equipment associated with this project provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROP	FISCAL YEAR	
		APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE FIXTURES & EQUIP	3400	2025	35
COMMUNICATIONS EQUIPMENT/SIMULATOR	3080	2025	15,703

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c. Title, Authorization, and Appropriations Summary:

FY2022 Title is "HELICOPTER RESCUE OPS MAINTENANCE HANGAR"

FY2023 Proposed Title Change is "HELO RESCUE OPS MAINTENANCE HANGAR, INC 2"

	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2022 Enacted	168,000	35,000	70,000
FY2023 Budget Request	-----	71,000	71,000
Future Request	-----	62,000	27,000
<b>Total</b>	<b>168,000</b>		<b>168,000</b>

**Project: PDI: Helo Rescue Ops Maintenance Hangar, Inc 2, Kadena AB, Japan**

**Project Spending Plan**

As of: 16-Mar-22

All Cost in thousands (\$000)

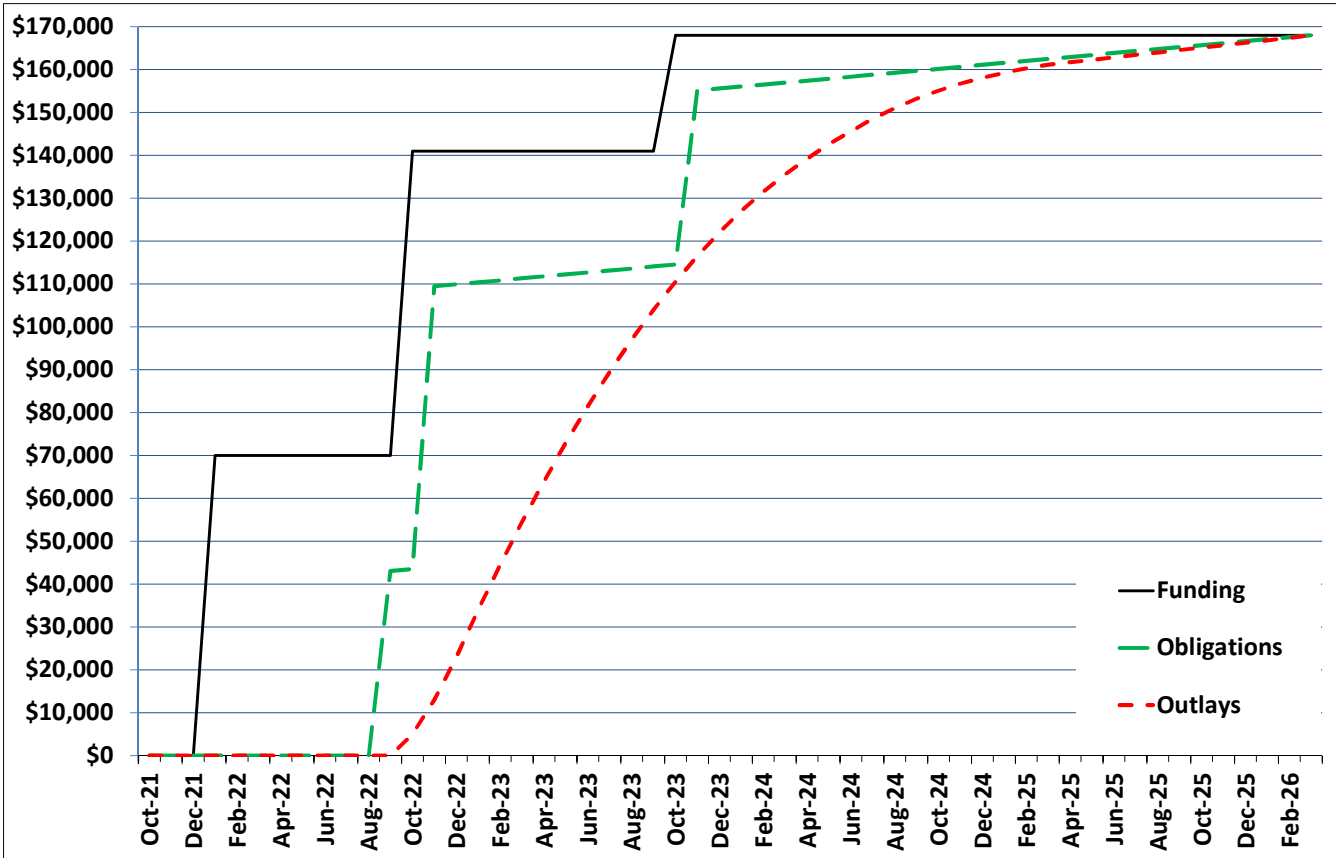
Chart Begin	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Oct-21	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-21	-	-	-	-	-	-
Nov-21	-	-	-	-	-	-
Dec-21	-	-	-	-	-	-
Jan-22	70,000	70,000	-	-	-	-
Feb-22	-	70,000	-	-	-	-
Mar-22	-	70,000	-	-	-	-
Apr-22	-	70,000	-	-	-	-
May-22	-	70,000	-	-	-	-
Jun-22	-	70,000	-	-	-	-
Jul-22	-	70,000	-	-	-	-
Aug-22	-	70,000	-	-	-	-
Sep-22	-	70,000	43,080	43,080	-	-
Oct-22	71,000	141,000	460	43,540	5,000	5,000
Nov-22	-	141,000	65,940	109,480	8,000	13,000
Dec-22	-	141,000	460	109,940	10,000	23,000
Jan-23	-	141,000	460	110,400	11,000	34,000
Feb-23	-	141,000	460	110,860	10,500	44,500
Mar-23	-	141,000	460	111,320	10,000	54,500
Apr-23	-	141,000	460	111,780	9,500	64,000
May-23	-	141,000	460	112,240	9,000	73,000
Jun-23	-	141,000	460	112,700	8,500	81,500
Jul-23	-	141,000	460	113,160	8,000	89,500
Aug-23	-	141,000	460	113,620	7,500	97,000
Sep-23	-	141,000	460	114,080	7,000	104,000
Oct-23	27,000	168,000	460	114,540	6,500	110,500
Nov-23	-	168,000	40,580	155,120	6,000	116,500
Dec-23	-	168,000	460	155,580	5,500	122,000
Jan-24	-	168,000	460	156,040	5,000	127,000
Feb-24	-	168,000	460	156,500	4,500	131,500
Mar-24	-	168,000	460	156,960	4,000	135,500
Apr-24	-	168,000	460	157,420	3,700	139,200
May-24	-	168,000	460	157,880	3,400	142,600
Jun-24	-	168,000	460	158,340	3,100	145,700
Jul-24	-	168,000	460	158,800	2,800	148,500
Aug-24	-	168,000	460	159,260	2,500	151,000
Sep-24	-	168,000	460	159,720	2,200	153,200
Oct-24	-	168,000	460	160,180	1,900	155,100
Nov-24	-	168,000	460	160,640	1,600	156,700
Dec-24	-	168,000	460	161,100	1,400	158,100
Jan-25	-	168,000	460	161,560	1,200	159,300
Feb-25	-	168,000	460	162,020	1,000	160,300
Mar-25	-	168,000	460	162,480	800	161,100
Apr-25	-	168,000	460	162,940	600	161,700
May-25	-	168,000	460	163,400	570	162,270
Jun-25	-	168,000	460	163,860	570	162,840
Jul-25	-	168,000	460	164,320	570	163,410
Aug-25	-	168,000	460	164,780	570	163,980
Sep-25	-	168,000	460	165,240	570	164,550
Oct-25	-	168,000	460	165,700	570	165,120
Nov-25	-	168,000	460	166,160	570	165,690
Dec-25	-	168,000	460	166,620	570	166,260
Jan-26	-	168,000	460	167,080	570	166,830
Feb-26	-	168,000	460	167,540	570	167,400
Mar-26	-	168,000	460	168,000	600	168,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2022.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award date of September 2022, Contract completion: March 2026, Duration 42 months.

**PDI: Heo Rescue Ops Maintenance Hangar, Inc 2, Kadena AB, Japan**





1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE #1 JAPAN			4. PROJECT TITLE: PDI: THEATER A/C CORROSION CONTROL CTR, INC 1	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-159	7. PROJECT NUMBER LXEZ193437	8. PROJECT COST (\$000) AUTH: 307,000 APPRO: 77,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				203,630
AIRCRAFT CORROSION CONTROL (211-159)	SM	14,160	14,310	(202,630)
CYBERSECURITY FACILITY-RELATED CONTROL SYS	LS			(1,000)
SUPPORTING FACILITIES				71,015
SITE IMPROVEMENTS	LS			(26,284)
PAVEMENTS	LS			(10,515)
ENVIROMENTAL MITIGATION	LS			(5,344)
SPECIAL FOUNDATIONS	LS			(8,637)
UTILITIES	LS			(2,593)
COMMUNICATIONS	LS			(560)
ARCHAEOLOGICAL MONITORING	LS			(5,876)
BUILDING DEMOLITION	SM	2,830	3,957	(11,206)
PROJECT SUBTOTAL				274,645
CONTINGENCY COST (5%)				13,732
TOTAL CONTRACT COST				288,377
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				18,745
PROJECT TOTAL				307,122
ROUNDED TOTAL COST				307,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(2,550)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a corrosion control facility for painting large bodied aircraft. The facility consists of a single bay paint booth, single bay prep/wash hangar, and support spaces for painting and sanding operations. The facility will be constructed from cast-in-place concrete walls with a structural steel truss framing system to supporting a cast-in-place concrete roof. The project will include supporting facilities such as utilities, pavements, and site improvements to provide a complete and usable facility. The facility should be compatible with applicable United States Department of Defense, Air Force, and base design standards. This project will demolish Building 3542 (2,830 square meters). In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind				

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<p>loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 60 Tons</p>				
<p>11. REQUIREMENT: 14,160 SM      ADEQUATE: 0 SM      SUBSTANDARD: 2,830 SM</p> <p>PROJECT: Theater Aircraft Corrosion Control Center</p> <p>REQUIREMENT: An adequately sized and configured Aircraft Corrosion Control Facility is required to provide hangar space for corrosion treating, corrosion repairing, paint stripping and repainting of an entire aircraft and an environmentally controlled area to wash aircraft. The facility shall also provide space for the corrosion control shop preparation and drying areas, abrasive blasting rooms, paint booths for mixing and applying paint, tool storage lockers, bathroom and locker rooms, administrative areas, storage space and mechanical rooms. A separate Corrosion Control Hazardous Material Storage and Corrosion Control Utility Storage buildings shall be provided. Supporting facilities include, but is not limited to, site preparation and cultural asset mitigation, utilities, HVAC, fire protection system, communications, vehicular pavement and access roads, fencing, concrete apron, exterior lighting, concrete retaining wall, and rerouting of POL line.</p> <p>CURRENT SITUATION: The current corrosion control hangar does not have the proper environmental controls for sprayed paint. Paint is currently applied by roller which does not provide a consistent coating within corrosion control specifications and does not adhere as well, causing more frequent need for corrosion control and increased risk of corrosion. In addition the hangar that is currently used for corrosion control is a C-130 hangar, KC-135s and E-3s are not able to fit within the facility. The existing large corrosion control facilities are Buildings 3541 and 3542 which were built in 1965. Building 3541 has a Risk Assessment Code 3 and Fire Safety Deficiency Code II assigned to the facility. Due to its age, the facility is in a severely deteriorated condition. The concrete roof slab is spalling creating the potential for pieces of concrete to fall and injure personnel and damage high value assets. The wash rack cannot be used due to corroded piping. The</p>				

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<p>hangar doors and tracks are not operating due to corrosion. The ventilation system is inadequate to support fiberglass preparation and painting operations. The lighting system does not provide the illumination required for corrosion control activities. There are no lifeline cables. The fire suppression system is corroded and needs to be replaced. Building 3542 has a Risk Assessment Code 2 and Fire Safety Deficiency Code I assigned to the facility. Due to age, the HVAC system is not operating. Hangar doors and tracks are corroded and are not operating. The ventilation system is no longer functioning and is exposing personnel to hazardous materials during sanding and painting work. The facility also lacks a clean room and a fall arrest system. The fire suppression system is severely corroded. Due to these deficiencies, the facility has been designated a "regulated area" by the Base Safety Office. As a result, precautionary measures requiring additional manpower and resources to execute must be implemented to protect the health and safety of personnel. Military personnel are prohibited from working in the facility until the health and safety issues are corrected. Corrosion control operations are currently being accomplished by Department of Defense contractors.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, maintenance personnel will continue to be forced to work in an environment that is detrimental to health and safety. Aircraft will continue to be painted by inappropriate methods due to lack of proper environmental control. Due to the inadequacies of the facilities, corrosion control work will continue to slow down, thereby, causing delays in critical treatment of aircraft. This will have an adverse impact on the base's readiness posture and the capability to effectively support the flying mission in the Pacific theatre.</p> <p>ADDITIONAL: This project meets the applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. An approved Economic Analysis determined new construction as the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life- cycle cost effective is selected as the reason any</p>				

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<p>requirement of UFC 1-200-02 is partially compliant or not applicable. This project is eligible for host nation funding; however, the US Forces Command states the project has extremely little chance of being funded in the foreseeable future. This project does not fall within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. The cost estimate was based on PACES and is in line with the Department of Defense Pricing Guide Parameters. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), and shall employ the standard facility design for Corrosion Control/Fuel Cell Maintenance Hangar Facility.</p> <p>18th Civil Engineer Group: DSN (315)-634-1807</p> <p>718th Civil Engineer Squadron: DSN (315)-634-0718</p> <p>Aircraft Corrosion Control Facility: 14,160 SM = 152,417 Square Feet;</p> <p>Demolition: 2,830 SM = 30,462 Square Feet.</p> <p>FOREIGN CURRENCY BUDGET RATE USED: 1 USD/109.7015 YEN</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

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12. SUPPLEMENTAL DATA			
a. Estimated Design Data:			
(1) Status			
(a) Type of Design	Design-Bid-Build		
(b) Dated Design Start	17-NOV-20		
(c) Parametric Cost Estimates used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2022	65%		
(e) Date 35% Designed	02-AUG-21		
(f) Date Design Complete	23-SEP-22		
(g) Energy Study/Life-Cycle Analysis was/will be performed	YES		
(2) Basis			
(a) Standard or Definitive Design	YES		
(b) Where Design Was Most Recently Used	McConnell AFB		
(3) Total Cost (c) = (a) + (b) or (d) + (e)	(\$000)		
(a) Production of Plans and Specifications	17,400		
(b) All Other Design Costs	8,700		
(c) Total	26,100		
(d) Contract	21,750		
(e) In-house	4,350		
(4) Construction Contract Award	23-AUG		
(5) Construction Start	23-OCT		
(6) Construction Completion	27-NOV		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPRO	OR REQUESTED	(\$000)
FURNITURE FIXTURE & EQUIPMENT	3080	2026	2,350
COMMUNICATIONS	3400	2026	200

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE #1 JAPAN		4. PROJECT TITLE: PDI: THEATER A/C CORROSION CONTROL CTR, INC 1	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-159	7. PROJECT NUMBER LXEZ193437	8. PROJECT COST (\$000) AUTH: 307,000 APPRO: 77,000

c. Title, Authorization, and Appropriations Summary:

	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2023 Budget Request	307,000	77,000	77,000
Future Request	-----	230,000	230,000
<b>Total</b>	<b>307,000</b>		<b>307,000</b>

**Project: PDI: Theater A/C Corrosion Control Ctr, Inc 1, Kadena AB, Japan**

**Project Spending Plan**

As of: 6-Mar-22

All Cost in thousands (\$000)

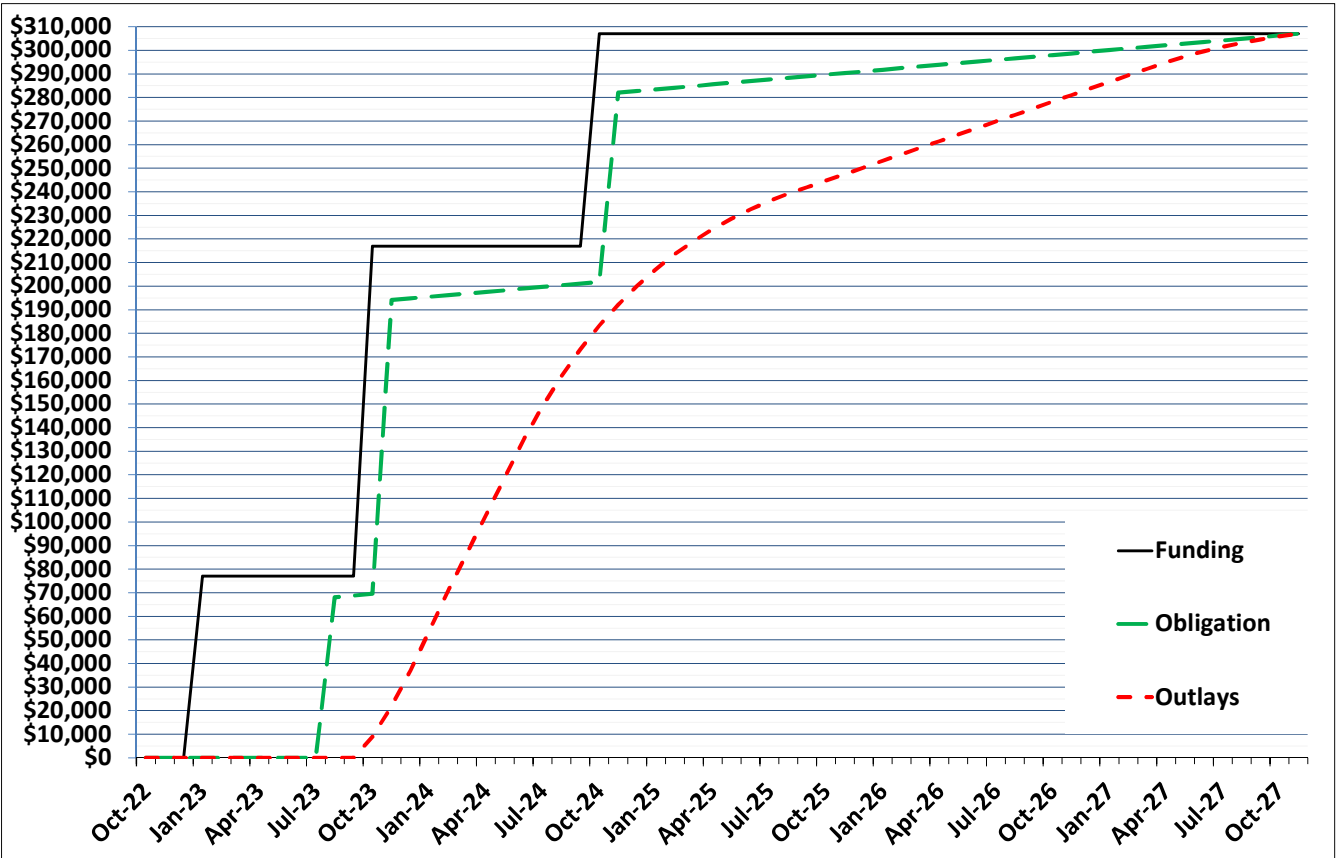
Chart Begin	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Oct-22	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-22	-	-	-	-	-	-
Nov-22	-	-	-	-	-	-
Dec-22	-	-	-	-	-	-
Jan-23	77,000	77,000	-	-	-	-
Feb-23	-	77,000	-	-	-	-
Mar-23	-	77,000	-	-	-	-
Apr-23	-	77,000	-	-	-	-
May-23	-	77,000	-	-	-	-
Jun-23	-	77,000	-	-	-	-
Jul-23	-	77,000	-	-	-	-
Aug-23	-	77,000	68,145	68,145	-	-
Sep-23	-	77,000	692	68,837	-	-
Oct-23	140,000	217,000	692	69,529	9,000	9,000
Nov-23	-	217,000	124,592	194,121	13,000	22,000
Dec-23	-	217,000	692	194,813	15,000	37,000
Jan-24	-	217,000	692	195,505	17,000	54,000
Feb-24	-	217,000	692	196,197	17,000	71,000
Mar-24	-	217,000	692	196,889	16,000	87,000
Apr-24	-	217,000	692	197,581	16,000	103,000
May-24	-	217,000	692	198,273	16,000	119,000
Jun-24	-	217,000	692	198,965	16,000	135,000
Jul-24	-	217,000	692	199,657	14,240	149,240
Aug-24	-	217,000	692	200,349	12,670	161,910
Sep-24	-	217,000	692	201,041	11,280	173,190
Oct-24	90,000	307,000	692	201,733	10,040	183,230
Nov-24	-	307,000	80,342	282,075	8,940	192,170
Dec-24	-	307,000	692	282,767	7,960	200,130
Jan-25	-	307,000	692	283,459	7,080	207,210
Feb-25	-	307,000	692	284,151	6,300	213,510
Mar-25	-	307,000	692	284,843	5,610	219,120
Apr-25	-	307,000	692	285,535	4,990	224,110
May-25	-	307,000	692	286,227	4,440	228,550
Jun-25	-	307,000	692	286,919	3,950	232,500
Jul-25	-	307,000	692	287,611	3,520	236,020
Aug-25	-	307,000	692	288,303	3,130	239,150
Sep-25	-	307,000	692	288,995	2,790	241,940
Oct-25	-	307,000	692	289,687	2,790	244,730
Nov-25	-	307,000	692	290,379	2,790	247,520
Dec-25	-	307,000	692	291,071	2,790	250,310
Jan-26	-	307,000	692	291,763	2,790	253,100
Feb-26	-	307,000	692	292,455	2,790	255,890
Mar-26	-	307,000	692	293,147	2,790	258,680
Apr-26	-	307,000	692	293,839	2,790	261,470
May-26	-	307,000	692	294,531	2,790	264,260
Jun-26	-	307,000	692	295,223	2,790	267,050
Jul-26	-	307,000	692	295,915	2,790	269,840
Aug-26	-	307,000	692	296,607	2,790	272,630
Sep-26	-	307,000	692	297,299	2,790	275,420
Oct-26	-	307,000	692	297,991	2,790	278,210
Nov-26	-	307,000	692	298,683	2,790	281,000
Dec-26	-	307,000	692	299,375	2,790	283,790
Jan-27	-	307,000	692	300,067	2,790	286,580
Feb-27	-	307,000	692	300,759	2,790	289,370
Mar-27	-	307,000	692	301,451	2,790	292,160
Apr-27	-	307,000	692	302,143	2,790	294,950
May-27	-	307,000	692	302,835	2,460	297,410
Jun-27	-	307,000	692	303,527	2,160	299,570
Jul-27	-	307,000	692	304,219	1,900	301,470
Aug-27	-	307,000	692	304,911	1,670	303,140
Sep-27	-	307,000	692	305,603	1,470	304,610
Oct-27	-	307,000	692	306,295	1,290	305,900
Nov-27	-	307,000	709	307,000	1,100	307,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2023.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award date of August 2023, Contract completion: November 2027, Duration 51 months.

**PDI: Theater A/C Corrosion Control Ctr, Kadena AB, Japan**





<b>1. COMPONENT</b> AIR FORCE		<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20220308				
<b>3. INSTALLATION AND LOCATION</b> MUWAFFAQ SALT I AB (MSAB) AIR BASE, JORDAN				<b>4. COMMAND</b> AIR COMBAT COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.8				
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
		<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF	30-SEP-21	179	1,393	239	0	0	0	23	228	0	2,062
b. END FY		177	1,391	239	0	0	0	23	228	0	2,058
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE										1,482	
b. INVENTORY TOTAL AS OF 30-SEP-21										136,917.00	
c. AUTHORIZATION NOT YET IN INVENTORY										66,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										50,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										55,000.00	
g. REMAINING DEFICIENCY										175,600.00	
h. GRAND TOTAL										483,517.00	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>											
<b>a. CATEGORY</b>				<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>					
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>		<b>(3) SCOPE</b>			<b>(1) START</b>	<b>(2) COMPLETE</b>				
411-320	Bulk Petroleum/Oil/Lubricants Storage		30,000 BL		32,000	10/19	08/21				
211-179	Fuel Cell and Phase Maintenance Hangars		1,296 SM		18,000	10/19	02/22				
<b>9. FUTURE PROJECTS</b> 721-312 Dormitory Complex (43,650 SM/\$55,000)											
<b>10. MISSION OR MAJOR FUNCTIONS</b> Muwaffaq-Salti Air Base is home to the 332 Air Expeditionary Wing that generates, executes and sustains combat air power across the Levant region thru the use of Intelligence, Surveillance, Reconnaissance (ISR) and fighter aircraft. The Wing also supports the Army Patriot Battery and Air Defense Artillery (ADA) missions.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b> N/A											

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION MUWAFFAQ SALTI AB JORDAN		4. PROJECT TITLE BULK PETROLEUM/OIL/LUBRICANTS STORAGE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 411-320	7. PROJECT NUMBER ASVF213100	8. PROJECT COST (\$000) 32,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				24,141
CUT-AND-COVER BULK LIQUID FUEL STOR (411-320)	BL	30,000	599	(17,970)
OPERATING STORAGE, DIESEL-ABOVE GND (124-134)	GA	100,000	9.23	(923)
PUMP STATION, LIQUID FUEL (125-977)	GM	2,400	1,875	(4,500)
LIQUID FUEL TRUCK FILL STAND (126-925)	OL	2	249,075	(498)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(250)
SUPPORTING FACILITIES				3,229
PAVEMENTS	LS			(842)
UTILITIES	LS			(413)
PASSIVE FORCE PROTECTION MEASURES	LS			(1,384)
COMMUNICATIONS	LS			(131)
BACKUP GENERATOR	KW	750	560	(420)
SITE IMPROVEMENTS	LS			(39)
SUBTOTAL				27,370
CONTINGENCY (5.0%)				1,369
TOTAL CONTRACT COST				28,739
SUPERVISION, INSPECTION AND OVERHEAD (12.0%)				3,449
TOTAL REQUEST				32,188
TOTAL REQUEST (ROUNDED)				32,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(275)
10. Description of Proposed Construction: Construct two (2) 15,000 barrel cut and cover bulk Petroleum/Oil/Lubricant storage tanks with associated concrete and steel pump houses and filter facility, with diesel operating storage tanks and dispensers. The project also includes two R-11 refueler vehicle fill stands, a receipt system, associated pavements, utilities, communications, site improvements, security fencing, and perimeter lighting to provide a complete and useable facility. A backup generator is included and authorized in Air Force Instruction 32-1062, paragraph 2.3.1.4. This location is designated for semi-permanent construction to support military operations outside of the United States. Facilities will be designed as semi-permanent construction in accordance with Unified Facilities Criteria 1-201-01, Non-Permanent Department of Defense Facilities in Support of Military Operations. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION MUWAFFAQ SALTI AB JORDAN		4. PROJECT TITLE BULK PETROLEUM/OIL/LUBRICANTS STORAGE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 411-320	7. PROJECT NUMBER ASVF213100	8. PROJECT COST (\$000) 32,000	
<p>4-010-01. Supervision, Inspection and Overhead on this project increased from 6.5% to 12.0% to cover the cost of temporary duty personnel expenses due to United States Embassy-Jordan withholding sponsorship via National Security Decision Directive 38. As a result, the United States Army Corps cannot hire foreign service national and long-term Department of Army civilian employees in-country in order to significantly reduce Supervision, Inspection, and Overhead expenses.</p> <p>Air Conditioning: 25 Tons</p>				
<p>11. Requirement: 30,000 BL      Adequate: 0 BL      Substandard: 0 BL</p> <p>PROJECT: Bulk Petroleum, Oil, Lubricants Storage Facility</p> <p>REQUIREMENT: Muwaffaq-Salti Air Base requires a bulk Petroleum, Oil, and Lubricants storage facility to operate/sustain fighter and intelligence, surveillance, and reconnaissance operations to meet United States Central Command mission requirements. United States Central Command requires at least one counter terrorist operational hub in the Levant with secured access and infrastructure to support enduring and contingency missions. Muwaffaq-Salti Air Base has been identified as the counter terrorist operational hub. The development supports realignment of United States Forces from an expeditionary approach at contingency basing scattered across Jordan to enduring missions supportive of a key bilateral relationship. This is not a tenant or supported service requirement. This project fulfills the requirement for bulk fuel storage capabilities for Jet Propulsion fuel type 8. This project meets the fueling demand for the flightline operations that are required to support the contingency operations at Muwaffaq-Salti Air Base, Jordan. It also provides for storage of diesel that is required for vehicle operations and the generator farm that is necessary to operate the life support and operations town areas.</p> <p>CURRENT SITUATION: Muwaffaq-Salti Air Base only has expeditionary War Reserve Materiel assets for fuel storage and cannot meet the jet fuel demand long-term or the projected demand once the airlift, close air support /intelligence, surveillance, and reconnaissance, and Personal Recovery /Special Operations Forces aprons are completed in 2023 and at full operational capacity. In the interim, the base will have to continue to rely on temporary expeditionary fuel bladders. Additionally, the lifespan of the War Reserve Materiel fuel storage assets are intended to only meet short-term mission requirements. Bulk fuel storage and the supporting infrastructure simply do not exist to support current flightline operations long-term nor does Muwaffaq-Salti Air Base have the ability to support future missions projected for the base.</p> <p>IMPACT IF NOT PROVIDED: If this project is not funded, fuel requirements</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION MUWAFFAQ SALTU AB JORDAN		4. PROJECT TITLE BULK PETROLEUM/OIL/LUBRICANTS STORAGE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 411-320	7. PROJECT NUMBER ASVF213100	8. PROJECT COST (\$000) 32,000	
<p>needed to operate the flightline facilities will be greatly hindered by continual use of contingency assets. As a result, the commanders in Jordan will face unacceptable risk sustaining additional forces to support the concept of operations for Muwaffaq-Salti Air Base. War Reserve Materiel assets are intended for short-term operations only requiring constant maintenance and replacement of failed fuel bladders. As additional missions projected for Muwaffaq-Salti Air Base arrive, it will be extremely difficult to continue to operate with War Reserve Materiel assets only.</p> <p>ADDITIONAL: This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This project has been coordinated with the Jordanian Armed Forces (Host Nation government) and is fully supported. No funding is expected from the Host Nation for this project. This project has been coordinated with the installation physical security plan, and all physical security measures are included. The project is sited in accordance with the Installation Development Plan and is within a compatible land use area. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, and shall employ the standard facility design for fuel storage and distribution systems. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. An analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements: new construction. A waiver to an Economic Analysis has been approved for this project. This project does not fall within or partly within the 100-year flood plain.</p> <p>AFCENT Chief of Programs: 803-717-7055</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION MUWAFFAQ SALTI AB JORDAN		4. PROJECT TITLE BULK PETROLEUM/OIL/LUBRICANTS STORAGE	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 411-320	7. PROJECT NUMBER ASVF213100	8. PROJECT COST (\$000) 32,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design			Design-Bid-Build
(b) Date Design Started			01-OCT-19
(c) Parametric Cost Estimates Used to develop costs			YES
(d) Percent Complete as of 01 JAN 2022			100%
(e) Date 35% Designed			15-JAN-20
(f) Date Design Complete			24-AUG-21
(g) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design			YES
(b) Where Design Was Most Recently Used			Al Udeid, QATAR
(3) Total Cost (c) = (a) + (b) or (d) + (e)			(\$000)
(a) Production of Plans and Specifications			1,920
(b) All Other Design Costs			960
(c) Total			2,880
(d) Contract			2,400
(e) In-house			480
(4) Construction Contract Award			23-MAR
(5) Construction Start			23-MAY
(6) Construction Completion			25-MAY
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
FURNITURE, FIXTURES AND EQUIP	3400	2024	150
COMMUNICATIONS	3400	2024	125

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE APRIL 2022		
3. INSTALLATION, SITE AND LOCATION MUWAFFAQ SALTI AB JORDAN		4. PROJECT TITLE FUEL CELL AND PHASE MAINTENANCE HANGARS			
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-179	7. PROJECT NUMBER ASVF223120	8. PROJECT COST (\$000) 18,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					13,476
FUEL SYSTEM MAINTENANCE DOCK (211-179)		SM	1,296	4,753	(6,160)
HANGAR, MAINTENANCE (211-111)		SM	1,160	4,547	(5,275)
TAXIWAY (112-211)		SM	5,327	320	(1,705)
SHOULDER, PAVED (116-642)		SM	623	138	(86)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(250)
SUPPORTING FACILITIES					2,010
UTILITIES		LS			(837)
COMMUNICATIONS		LS			(263)
PAVEMENTS		LS			(191)
SITE IMPROVEMENTS		LS			(719)
SUBTOTAL					15,486
CONTINGENCY (5.0%)					774
TOTAL CONTRACT COST					16,260
SUPERVISION, INSPECTION AND OVERHEAD (12.0%)					1,951
TOTAL REQUEST					18,211
TOTAL REQUEST (ROUNDED)					18,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(575)
10. Description of Proposed Construction: Construct two (2) single-bay composite sized fighter fully enclosed maintenance hangars; one is to be used for phase maintenance and the other for fuel cell maintenance. Construction will include a reinforced concrete foundation and floor slab, structural steel frame, standing seam metal roof. The hangars will have the necessary connecting taxiways and roads. The hangars will have the necessary supporting utilities to include communications, power, heating, ventilation & air conditioning, plumbing and fire protection systems to provide a complete and usable facility. This location is designated for semi-permanent construction to support military operations outside of the United States. Facilities will be designed as semi-permanent construction in accordance with Unified Facility Criteria 1-201-01, Non-Permanent Department of Defense Facilities in Support of Military Operations. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01. Supervision, Inspection and Overhead on this project increased from 6.5% to 12.0% to cover the cost of temporary					

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION MUWAFFAQ SALTI AB JORDAN		4. PROJECT TITLE FUEL CELL AND PHASE MAINTENANCE HANGARS	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-179	7. PROJECT NUMBER ASVF223120	8. PROJECT COST (\$000) 18,000
<p>duty personnel expenses due to United States Embassy-Jordan is withholding sponsorship via National Security Decision Directive 38. As a result, the United States Army Corps cannot hire foreign service national and long-term Department of Army civilian employees in-country in order to significantly reduce Supervision, Inspection, and Overhead expenses.</p> <p>Air Conditioning: 20 Tons</p>			
<p>11. Requirement: 1,296 SM      Adequate: 0 SM      Substandard: 0 SM</p> <p>PROJECT: Fuel Cell and Phase Maintenance Hangars</p> <p>REQUIREMENT: United States Central Command requires at least one counter terrorist operational hub in the Levant with secured access to infrastructure to support enduring and contingency missions. Muwaffaq-Salti Air Base has been identified as the counter terrorist operational hub and requires the fuel cell and phase maintenance hangars to sustain and maintain fighter operations. The development supports realignment of United States Forces from an expeditionary approach at contingency basing scattered across Jordan to enduring missions supportive of a key bilateral relationship. This project fulfills the requirement for aircraft maintenance in order to meet the aircraft sortie generation demands to support the long-range operations at Muwaffaq-Salti Air Base, Jordan. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: Muwaffaq-Salti Air Base is temporarily using Host Nation expeditionary aircraft maintenance shelters and the open aprons for conducting required and urgent aircraft maintenance. Muwaffaq-Salti Air Base must have a safe and controlled environment in order to have the ability to maintain aircraft in support of the future missions projected for the base.</p> <p>IMPACT IF NOT PROVIDED: If this project is not funded, aircraft maintenance requirements will continue to operate in either open-air environments or temporary shelters. As a result, the commanders in Jordan will face unacceptable risk to safely sustain the additional forces that support the concept of operations for Muwaffaq-Salti Air Base. It is expected that sortie generation will more than double as the second fighter squadron and the Combat Search and Rescue mission is brought to the base. New hangars are required to safely operate the flightline for current and projected missions during the United States Forces presence at the base.</p> <p>ADDITIONAL: This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This project has been coordinated with the Jordanian Armed Forces and is fully supported, but no funding is expected from the Host Nation. This project has been coordinated with the installation physical security plan, and all physical security</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION MUWAFFAQ SALTI AB JORDAN		4. PROJECT TITLE FUEL CELL AND PHASE MAINTENANCE HANGARS	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-179	7. PROJECT NUMBER ASVF223120	8. PROJECT COST (\$000) 18,000
<p>measures are included. The project is sited in accordance with the Installation Development Plan and is within a compatible land use area. This design will conform to criteria established in the Air Force Corporate Facilities Standards and the Installation Facilities Standards, but will not employ a standard facility design in order to provide flexibility for various coalition aircraft. Sustainable principles, to include life-cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, or when life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. An analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements: new construction. A waiver to do an Economic Analysis has been approved for this project. This project does not fall within or partly within the 100-year flood plain.</p> <p>AFCENT Chief of Programs: 803-717-7055</p> <p>Fuel System Maintenance Dock: 1,296 SM = 13,950 Square Feet</p> <p>Hangar, Maintenance: 1,160 SM = 12,487 Square Feet</p> <p>Taxiway: 5,327 SM = 57,339 Square Feet</p> <p>Shoulder, Paved: 623 SM = 6,706 Square Feet</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the project is based on Air Force requirements.</p>			



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION MUWAFFAQ SALTI AB JORDAN		4. PROJECT TITLE FUEL CELL AND PHASE MAINTENANCE HANGARS	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-179	7. PROJECT NUMBER ASVF223120	8. PROJECT COST (\$000) 18,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	16-OCT-19		
(c) Parametric Cost Estimates Used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2022	95%		
(e) Date 35% Designed	17-JAN-20		
(f) Date Design Complete	16-FEB-22		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	NO		
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a) + (b) or (d) + (e)	(\$000)		
(a) Production of Plans and Specifications	990		
(b) All Other Design Costs	495		
(c) Total	1,485		
(d) Contract	1,238		
(e) In-house	247		
(4) Construction Contract Award	23-MAR		
(5) Construction Start	23-MAY		
(6) Construction Completion	25-MAY		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
FURNITURE, FIXTURES AND EQUIP	3080	2025	450
COMMUNICATIONS	3400	2025	125

<b>1. COMPONENT</b> AIR FORCE			<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE (YYYYMMDD)</b> 20220308			
<b>3. INSTALLATION AND LOCATION</b> RYGGE AIR STATION, NORWAY						<b>4. COMMAND</b> UNITED STATES AIR FORCES IN EUROPE			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.72			
<b>6. PERSONNEL</b>			<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
			<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF 30- SEP-21			0	0	0	0	0	0	5	50	0	55
b. END FY			0	0	0	0	0	0	5	50	0	55
<b>7. INVENTORY DATA (\$000)</b>												
a. TOTAL ACREAGE										0		
b. INVENTORY TOTAL AS OF 30-SEP-21										0.00		
c. AUTHORIZATION NOT YET IN INVENTORY										24,100.00		
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										8,200.00		
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										111,310.00		
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00		
g. REMAINING DEFICIENCY										132,000.00		
h. GRAND TOTAL										275,610.00		
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>												
<b>a. CATEGORY</b>						<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>				
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>				<b>(3) SCOPE</b>				<b>(1) START</b>	<b>(2) COMPLETE</b>		
872-247	EDI: BASE PERIMETER SECURITY FENCE				5,330 LM		8,200		03/19	03/20		
<b>9. FUTURE PROJECTS</b>												
116-662 ERI: Replace/Expand Quick Reaction Alert Pad (\$19,175)												
442-758 EDI: DABS-FEV Storage (13,754 SM/\$92,135)												
<b>10. MISSION OR MAJOR FUNCTIONS</b>												
Rygge Air Station is the primary sources for U.S. European Command (EUCOM) and its Service Components' ability to respond to an evolving European security environment.												
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>												
N/A												

1. COMPONENT AIR FORCE		FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022	
3. INSTALLATION, SITE AND LOCATION RYGGE AIR STATION NORWAY			4. PROJECT TITLE EDI: BASE PERIMETER SECURITY FENCE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 872-247	7. PROJECT NUMBER ENRY190002	8. PROJECT COST (\$000) 8,200		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					5,920
FENCE SECURITY/VEHICLE BARRIERS (872-247)		LM	5,330	698	(3,720)
ROAD UNSURFACED, NEW (851-201)		SM	10,000	88	(880)
ROAD UNSURFACED, REPAIR (851-201)		SM	40,000	33	(1,320)
SUPPORTING FACILITIES					1,444
UTILITIES		LS			(686)
SITE IMPROVEMENTS		LS			(758)
SUBTOTAL					7,364
CONTINGENCY (5.0%)					368
TOTAL CONTRACT COST					7,732
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					503
TOTAL REQUEST					8,235
TOTAL REQUEST (ROUNDED)					8,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(0)
10. DESCRIPTION OF PROPOSED WORK: Construct a base perimeter fence and security patrol road. The base perimeter fence will be surmounted by 3-stands of barbed wire with an outrigger, signage, and clear zones. Work also includes the construction and repair of an unsurfaced gravel road for security patrol. Supporting facilities include site improvements, utility conduits for future connection to lighting and intrusion detection systems, storm drainage, and landscaping. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facility Criteria 4-010-01.  Air Conditioning: 0 Tons					
11. Requirement: 5,330 LM Adequate: 0 LM Substandard: 0 LM PROJECT: EDI: BASE PERIMETER SECURITY FENCE REQUIREMENT: This project is in support of the European Deterrence Initiative. This initiative includes military exercises and training on land, in the air, and at sea while sustaining a rotational presence throughout Europe. A key enabler for training and deterrence operations is infrastructure at key locations to support military activities. CURRENT SITUATION: Currently, Rygge Air Station does not have a fully enclosed perimeter. Approximately four (4) kilometers of lakefront terrain					

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION RYGGE AIR STATION NORWAY			4. PROJECT TITLE EDI: BASE PERIMETER SECURITY FENCE	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 872-247	7. PROJECT NUMBER ENRY190002	8. PROJECT COST (\$000) 8,200	

are unfenced, with security limited to periodic foot patrols, due to the steep, uneven terrain in this area. This presents a security risk for intrusion into the base, particularly in the winter months when the lake freezes over.

IMPACT IF NOT PROVIDED: If this project is not provided, adequate base and airfield security/force protection measures will not be available to the Department of Defense or its North Atlantic Treaty Organization partners. The incomplete base perimeter fencing and patrol roads will continue to pose a security threat, leaving the installation subject to infiltration without detection. These limitations will impede sortie generation and flying schedules, directly limiting airfield presence and impacting airfield capability and readiness to support operations. Therefore, responsiveness for bilateral and multilateral exercises and training missions conducted by Department of Defense and North Atlantic Treaty Organization allied partner personnel and assets would be compromised.

ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements, as well as Bi-Strategic Commands Directive 85-5, North Atlantic Treaty Organization Approved Criteria and Standards for Airfields. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plan. The facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. An Economic Analysis was not performed because after an analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements; new construction. This project will be submitted for North Atlantic Treaty Organization pre-financing. Although not currently part of an approved North Atlantic Treaty Organization capability package, a precautionary pre-finance statement will be filed for this project to allow possible future recoupment if the project becomes a North Atlantic Treaty Organization capability.

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION RYGGE AIR STATION NORWAY		4. PROJECT TITLE EDI: BASE PERIMETER SECURITY FENCE	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 872-247	7. PROJECT NUMBER ENRY190002	8. PROJECT COST (\$000) 8,200

Base Civil Engineer commercial phone number +49 6371-47-6773

Fence Security/Vehicle Barriers: 5,330 LM = 17,487 Linear Feet;

Road Unsurfaced, New: 10,000 SM = 107,639 Square Feet;

Road Unsurfaced, Repair: 40,000 SM = 430,556 Square Feet.

Foreign Currency Fluctuation Budget Rate Used: 1 USD / 8.5634 KRONE

JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION RYGGE AIR STATION NORWAY			4. PROJECT TITLE EDI: BASE PERIMETER SECURITY FENCE	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 872-247	7. PROJECT NUMBER ENRY190002	8. PROJECT COST (\$000) 8,200	
12. SUPPLEMENTAL DATA:				
a. Estimated Design Data:				
(1) Status:				
(a) Type of Design	Design-Bid-Build			
(b) Date Design Started	21-MAR-19			
(c) Parametric Cost Estimates Used to develop costs	YES			
(d) Percent Complete as of 01 JAN 2022	100%			
(e) Date 35% Designed	25-JUN-19			
(f) Date Design Complete	18-MAR-20			
(g) Energy Study/Life-Cycle analysis was/will be performed	YES			
(2) Basis:				
(a) Standard or Definitive 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	492			
(b) All Other Design Costs	246			
(c) Total	738			
(d) Contract	615			
(e) In-house	123			
(4) Construction Contract Award	23-APR			
(5) Construction Start	23-MAY			
(6) Construction Completion	24-JAN			
b. Equipment associated with this project provided from other appropriations:				
			FISCAL YEAR	
EQUIPMENT NOMENCLATURE	PROCURING		APPROPRIATED	COST
	APPROP		OR REQUESTED	(\$000)
N/A				

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2023 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20220308				
<b>3. INSTALLATION AND LOCATION</b> MORON AIR BASE, SPAIN				<b>4. COMMAND</b> UNITED STATES AIR FORCES IN EUROPE			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.37				
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>(4) TOTAL</b>
		<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF	30- SEP-21	86	319	101	0	0	0	56	268	0	830
b. END FY		89	327	125	0	0	0	58	275	0	874
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE										3,428	
b. INVENTORY TOTAL AS OF 30- SEP-21										1,026,096.00	
c. AUTHORIZATION NOT YET IN INVENTORY										8,542.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										29,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										174,000.00	
g. REMAINING DEFICIENCY										34,000.00	
h. GRAND TOTAL										1,271,638.00	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM</b>											
<b>a. CATEGORY</b>				<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>					
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>		<b>(3) SCOPE</b>			<b>(1) START</b>	<b>(2) COMPLETE</b>				
442-758	EDI: RADR Storage Facility		5,822 SM		29,000	09/20	12/21				
<b>9. FUTURE PROJECTS</b>											
211-111 EDI: Wide Frame Maintenance Hangar (3,420 SM/\$18,000)											
124-135 EDI: POL Storage (\$35,000)											
422-264 EDI: Munitions Storage Area (3,510 SM/\$37,000)											
113-321 EDI: Parking Apron (136,500 SM/\$84,000)											
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
The Mission of Moron Air Base is to provide expeditionary combat support and expandable forward operating base to support transient/bed-down of aircraft operations; to provide the staging of aircraft and personnel in support of US and NATO plans, exercises and contingency operations; and to provide Base Operating Support to tenant units.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES</b>											
N/A											

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION MORON AIR BASE SPAIN		4. PROJECT TITLE EDI: RADR STORAGE FACILITY		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER QUUG191014	8. PROJECT COST (\$000) 29,000	
9. COST ESTIMATES				
ITEM	U/M	QTY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				22,747
WAREHOUSE SUPPLY AND EQUIPMENT BASE (442-758)	SM	5,822	3,297	(19,195)
VEHICLE PARKING OPERATIONS (852-261)	SM	11,492	173	(1,988)
PAD, EQUIPMENT OR SUPPORT (132-133)	SM	2,085	180	(375)
VEHICLE STAGING AREA, SURFACED/UNSURFACED (852-301)	SM	19,700	36	(709)
CYBERSECURITY OF FACILITY RELATED CONTROL SYS	LS			(480)
SUPPORTING FACILITIES				3,047
UTILITIES	LS			(1,743)
SITE IMPROVEMENTS	LS			(551)
SITE WORK	LS			(753)
SUBTOTAL				25,794
CONTINGENCY (5.0%)				1,290
TOTAL CONTRACT COST				27,084
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				1,760
TOTAL REQUEST				28,844
TOTAL REQUEST (ROUNDED)				29,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(0)
<p>10. DESCRIPTION OF PROPOSED WORK: Construct Rapid Airfield Damage Recovery Storage Facilities for a Medium Rapid Airfield Damage Repair kit comprising warehouse storage for vehicles and equipment with industrial ventilation, a unisex bathroom, and an exterior International Standardization Organization Container Storage Pad. Supporting facilities include site work (landscaping, grading, and paving), site utility systems (electrical, communications, water, wastewater, and stormwater), and demolition and replacement of an existing Contractor Laydown Yard. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facility Criteria 4-010-01.</p> <p>Air Conditioning: 0 Tons</p>				
<p>11. Requirement: 9,382 SM      Adequate: 3,560 SM      Substandard: 0 SM</p> <p>PROJECT: EDI: RADR STORAGE FACILITY</p> <p>REQUIREMENT: This project is required to enhance mission-readiness and airfield</p>				



1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION MORON AIR BASE SPAIN		4. PROJECT TITLE EDI: RADR STORAGE FACILITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER QUUG191014	8. PROJECT COST (\$000) 29,000
<p>readiness capabilities at Morón Air Base, Spain. A key enabler for training and combat operations is substantial infrastructure, including providing Rapid Airfield Damage Recovery capabilities at Main Operating Bases across the European Theater. Construction of Rapid Airfield Damage Recovery Storage Facilities is required to accommodate a Medium Rapid Airfield Damage Recovery kit comprising three crater repair kits and one foreign object debris removal kit. The Rapid Airfield Damage Recovery kit allows United States forces to quickly deploy to repair runway assets in order to minimize prolonged airfield closures and disruptions to United States air operations.</p> <p>CURRENT SITUATION: There are currently no Rapid Airfield Damage Recovery assets at Morón Air Base. Existing Warehouse Support and Equipment facilities are dedicated to base support functions and are unavailable for Rapid Airfield Damage Recovery mission use. Open storage is available on undeveloped parcels within Morón Air Base, however Rapid Airfield Damage Recovery assets are not suitable for long-term storage outside of a protected environment.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, Morón Air Base will not have readily available material, vehicles, and equipment to conduct necessary expedient airfield damage recovery in a contingency environment. The lack of properly sized and configured vehicle and equipment storage space and pavement for International Standardization Organization container storage will force the United States Air Force in Europe to make use of available open storage areas for vehicles and attachments that will not fully protect these valuable assets from climatic conditions. Exposure to the elements will degrade and potentially damage the Rapid Airfield Damage Recovery vehicles and equipment, reducing the ability to respond in a contingency scenario and increasing the potential for prolonged airfield closure. Consequent urgent repairs to restore the vehicles and attachments to the operability standards will degrade the installation's ability to launch and recover aircraft.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in the Department of the Air Force Manual 32-1084, Standard Facility Requirements, as well as Bi-Strategic Commands Directive 85-5, North Atlantic Treaty Organization Approved facilities Standards. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION MORON AIR BASE SPAIN		4. PROJECT TITLE EDI: RADR STORAGE FACILITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER QUUG191014	8. PROJECT COST (\$000) 29,000
<p>selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. An Economic Analysis was not performed because after an analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements; new construction. A Waiver to an Economic Analysis has been approved for this project. This project does not fall within or partly within the 100-year flood plan. The facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This project will be submitted for North Atlantic Treaty Organization pre-financing. Although not currently part of an approved North Atlantic Treaty Organization capability package, a precautionary pre-finance statement will be filed for this project to allow possible future recoupment if the project becomes a North Atlantic Treaty Organization capability.</p> <p>Base Civil Engineer commercial phone number +49 6371-47-6773</p> <p>Warehouse Supply And Equipment Base: 5,822 SM = 62,667 Square Feet;  Vehicle Parking Operations: 11,492 SM = 123,699 Square Feet;  Pad, Equipment Or Support: 2,085 SM = 22,443 Square Feet;  Vehicle Staging Area, Surfaced/Unsurfaced: 19,700 SM = 212,049 Square Feet.</p> <p>FOREIGN CURRENCY BUDGET RATE USED: 1 USD / 0.8390 EURO</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION MORON AIR BASE SPAIN		4. PROJECT TITLE EDI: RADR STORAGE FACILITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER QUUG191014	8. PROJECT COST (\$000) 29,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	21-SEP-20		
(c) Parametric Cost Estimates Used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2022	100%		
(e) Date 35% Designed	22-MAR-21		
(f) Date Design Complete	10-DEC-21		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive 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	1,740		
(b) All Other Design Costs	870		
(c) Total	2,610		
(d) Contract	2,175		
(e) In-house	435		
(4) Construction Contract Award	23-FEB		
(5) Construction Start	23-MAR		
(6) Construction Completion	25-AUG		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
N/A			

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA				2. DATE APRIL 2022	
3. INSTALLATION, SITE AND LOCATION WORLDWIDE UNSPECIFIED VARIOUS LOCATIONS			4. PROJECT TITLE  PLANNING AND DESIGN			
5. PROGRAM ELEMENT  91211F	6. CATEGORY CODE  961-000	7. PROJECT NUMBER  PAYZ230001		8. PROJECT COST (\$000)  11,722		
9. COST ESTIMATES						
ITEM			U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES						11,722
PLANNING AND DESIGN (91211F)			LS			(11,722)
SUPPORTING FACILITIES						0
SUBTOTAL						<u>11,722</u>
TOTAL CONTRACT COST						<u>11,722</u>
TOTAL REQUEST						<u>11,722</u>
10. Description of Proposed Construction: N/A						
11. Requirement:     Adequate:     Substandard:						
PROJECT: As required.						
<p>REQUIREMENT: These planning and design funds are required to complete the design of facilities for the European Deterrence Initiative FY 2024 Military Construction Program, initiate design of facilities for the FY 2025 Military Construction Program, and accomplish planning and design for major and complex technical projects with long lead-times to be included in subsequent Military Construction programs. These funds may be used for value engineering and for support of the design and construction management of projects that are funded by foreign governments and for design of classified and special programs. The funds may also be used for developing the Tri-Services Cost Estimating Guide and Unified Facilities Criteria.</p>						

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022	
3. INSTALLATION, SITE AND LOCATION WORLDWIDE UNSPECIFIED VARIOUS LOCATIONS			4. PROJECT TITLE  PLANNING AND DESIGN		
5. PROGRAM ELEMENT  91211F	6. CATEGORY CODE  961-000	7. PROJECT NUMBER  PAYZ230006	8. PROJECT COST (\$000)  12,424		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					12,424
PLANNING AND DESIGN (91211F)		LS			(12,424)
SUPPORTING FACILITIES					0
SUBTOTAL					<u>12,424</u>
TOTAL CONTRACT COST					<u>12,424</u>
TOTAL REQUEST					<u>12,424</u>
10. Description of Proposed Construction: N/A					
11. Requirement:     Adequate:     Substandard: PROJECT: As required.  REQUIREMENT: These planning and design funds are required to complete the design of facilities in support of the Pacific Deterrence Initiative in the FY 2024 Military Construction Program, initiate design of facilities in the FY 2025 Military Construction Program, and accomplish planning and design for major and complex technical projects with long lead-times to be included in subsequent Military Construction programs. These funds may be used for value engineering and for support of the design and construction management of projects that are funded by foreign governments and for design of classified and special programs. The funds may also be used for developing the Tri-Services Cost Estimating Guide and Unified Facilities Criteria.					

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION WORLDWIDE UNSPECIFIED VARIOUS LOCATIONS		4. PROJECT TITLE PLANNING AND DESIGN		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 961-000	7. PROJECT NUMBER PAYZ230002	8. PROJECT COST (\$000) 111,648	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				111,648
PLANNING AND DESIGN (91211F)	LS			<u>(84,275)</u>
PLANNING AND DESIGN (27412F)	LS			<u>(7,500)</u>
PLANNING AND DESIGN (84701F)	LS			<u>(4,938)</u>
PLANNING AND DESIGN (41221F)	LS			<u>(10,535)</u>
PLANNING AND DESIGN (91211S)	LS			<u>(4,400)</u>
SUPPORTING FACILITIES				0
SUBTOTAL				<u>111,648</u>
TOTAL CONTRACT COST				<u>111,648</u>
TOTAL REQUEST				<u>111,648</u>
10. Description of Proposed Construction: N/A				
11. Requirement: Adequate: Substandard:				
PROJECT: As required.				
<p>REQUIREMENT: These planning and design funds are required to complete the design of facilities in the FY 2024 Military Construction Program, initiate design of facilities in the FY 2025 Military Construction Program, and accomplish planning and design for major and complex technical projects with long lead-times to be included in subsequent Military Construction programs. These funds may be used for value engineering and for support of the design and construction management of projects that are funded by foreign governments and for design of classified and special programs. The funds may also be used for developing the Tri-Services Cost Estimating Guide and Unified Facilities Criteria.</p>				

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE APRIL 2022
3. INSTALLATION, SITE AND LOCATION WORLDWIDE UNSPECIFIED VARIOUS LOCATIONS		4. PROJECT TITLE UNSPECIFIED MINOR MILITARY CONSTRUCTION		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 962-000	7. PROJECT NUMBER PAYZ230003	8. PROJECT COST (\$000) 66,162	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				66,162
MINOR MILITARY CONSTRUCTION (91211F)	LS			<u>60,062</u>
MINOR MILITARY CONSTRUCTION (91211S)	LS			<u>6,100</u>
SUPPORTING FACILITIES				0
SUBTOTAL				<u>66,162</u>
TOTAL CONTRACT COST				<u>66,162</u>
TOTAL REQUEST				<u>66,162</u>
10. Description of Proposed Construction: N/A				
11. Requirement: Adequate: Substandard: PROJECT: As required. REQUIREMENT: Minor construction projects authorized by 10 U.S. Code 2805 are military construction projects with an estimated funded cost of more than \$2,000,000 and equal or less than \$6,000,000. This authority provides a means of accomplishing projects that are not identified but which are anticipated to arise during FY 2023. Included would be projects to support new mission requirements, new equipment, and other essential support to Air Force missions.				



Department of the Air Force

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# **Host Nation Funded Military Construction Program**

**Fiscal Year (FY)**

**2023 Budget**

**Estimates**

**Justification Data Submitted to  
Congress April 2022**



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**DEPARTMENT OF THE AIR FORCE  
HOST NATION MILITARY CONSTRUCTION PROGRAM CALENDAR YEAR 2023  
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**DEPARTMENT OF THE AIR FORCE  
HOST NATION MILITARY CONSTRUCTION PROGRAM CALENDAR YEAR 2023  
PROGRAM SUMMARY**

**Authorization Request  
(\$000s)**

**Military Construction**

<b>Major Construction</b>	<b>549,800</b>
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<b>Total Military Construction</b>	<b>549,800</b>
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**Strategic Narrative:**

The enclosed justification book represents the United States Air Forces Korea (USFK) Republic of Korea Funded Construction program for calendar year 2023. Although the justification book may appear to be a list of individual projects, these projects were developed in coordination between both countries to form an overall consolidated program to meet USFK priorities and Theater Infrastructure Master Plan – Armistice objectives. These projects have been through a detailed scoring and prioritization process with involvement of the USFK component commanders and represent the most critical and urgent operational requirements.

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**DEPARTMENT OF THE AIR FORCE  
 HOST NATION MILITARY CONSTRUCTION PROGRAM  
 CALENDAR YEAR 2023 INDEX  
 (DOLLARS IN THOUSANDS)**

STATE/COUNTRY	INSTALLATION	PROJECT	COST (\$000)
REPUBLIC OF KOREA	Gimhae Air Base	Refueling Vehicle Shop	8,800
		Gimhae Air Base TOTAL:	8,800
	Osan Air Base	Combined Air and Space Operations Intelligence Center	306,000
		Upgrade Electrical Distribution West, Phase 3	235,000
		Osan Air Base TOTAL:	541,000
		REPUBLIC OF KOREA TOTAL:	549,800
		HOST NATION FUNDED CONSTRUCTION TOTAL:	549,800

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1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE APRIL 2022	
3. INSTALLATION AND LOCATION GIMHAE AIR BASE, KOREA		4. PROJECT TITLE REFUELING VEHICLE SHOP, BUILDING-2036			
5. PROGRAM ELEMENT N/A	6. CATEGORY CODE 214-467	7. PROJECT NUMBER MEPZ173402 (F22R610)	8. PROJECT COST (\$000) 8,800		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITY:					5,916
Refueling Vehicle Shop (214-467)		SM	375	13,544	(5,027)
Liquid Fuels Analysis Laboratory (141-766)		SM	80	7,988	(639)
Cyber Security		LS	1		(250)
SUPPORTING FACILITIES:					1,987
Utilities		LS	1		(691)
Pavements		LS	1		(466)
Site Improvements		LS	1		(402)
Communication Support		LS	1		(62)
Anti-Terrorism/Force Protection		LS	1		(66)
Relocate Hazard Storage Building		SM	120		(300)
SUB-TOTAL					7,903
CONTINGENCY (5%)					395
TOTAL CONTRACT COST					8,298
SUPERVISION, INSPECTION & OVERHEAD (6.0%)					498
TOTAL REQUEST					8,796
TOTAL REQUEST (ROUNDED)					8,800
10. DESCRIPTION OF PROPOSED WORK: Utilize host-nation funding to construct refueling vehicle maintenance shop (375 Square Meters) and liquid fuels analysis shop (80 Square Meters) to support thirteen refueling vehicles. Facility shall include a 3 work bay maintenance space, liquid fuel analysis laboratory, administrative space, conference room, locker rooms, showers, restrooms, and supplies and parts storage. This project is needed to execute Fight Tonight refueling operations at Gimhae AB. This project will provide antiterrorism/ force protection measures to include necessary setbacks from adjacent roads and Personnel of Vehicle (POV) parking. The facility will be compatible with applicable Department of Defense (DoD), Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01. Relocate building 2024 (Hazard Storage building 120 SM) and expand the existing concrete parking lot with secondary containment to provide more parking space for R-11 refueler trucks.					
Air Conditioning : Total 24 tons					
11. Requirement: 455 SM                      Adequate: 0                      Substandard: 0					
PROJECT: Construct Refueling Vehicle Shop, Building-2036. (Current Mission)					
REQUIREMENT: Construct a refueling vehicle shop and liquid fuel analysis laboratory at Gimhae AB. The refueling vehicle shop cannot be					



1. COMPONENT  AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE  APRIL 2022
3. INSTALLATION AND LOCATION  GIMHAE AIR BASE, KOREA		4. PROJECT TITLE  REFUELING VEHICLE SHOP, BUILDING-2036	
5. PROGRAM ELEMENT  N/A	6. CATEGORY CODE  214-467	7. PROJECT NUMBER  MEPZ173402 (F22R610)	8. PROJECT COST (\$000)  8,800
<p>collocated with the vehicle maintenance shop. This is prohibited by AFOSH STD 127-20 which states "servicing or repairing fuel servicing tank units and hydrant hose trucks in maintenance shops with other vehicles". There are no alternate facilities on the installation, either adequate or available, which could be used to satisfy this requirement. Also, three (3) vehicles can be in the shop at a time. This project requires an 8" concrete wall to be placed between office wall and work bays. Supporting infrastructure includes, but is not limited to: water, electric, sewer, and natural gas services, curb and gutter, security lighting, exterior communications, fire suppression systems including fire pump and fire water storage tank, storm sewer system, sidewalks, site preparation, erosion control/grassing, landscaping, and signage.</p>			
<p><u>CURRENT SITUATION:</u> There is currently no building here on Gimhae AB to perform maintenance or inspections to the refueling fleet. The bulk fuels setup at Gimhae Logistics Readiness Squadron (LRS) is also heavily reliant on R11 refueler to conduct refueling of assets. Since this past February, building 2001 is no longer being used to perform refueling maintenance due to not meeting shop safety standards. Building 2001 is equipped with its own battery shop and welding area that are classed as spark points and not providing in or outside ground points per AFI 24-302 32.15.8.4. The vehicle refueling shop is required to be a separate facility based on AFI 24-302, so the current work around is working outdoors in the maintenance lot. Currently, we only have the capabilities for "field testing" to include water and color/particulate. We are unable to perform more accurate/in depth test sets such as Bottle Method which weighs the particulates in fuel, flash point which tests the combustion temperature, as well as keeping our samples in a temperature set location (73 +/- 5 F) per TO 42B-1-1. ROKAF has been helping out with the sample requirements we are unable to perform, but the moment they decide to stop would deviate from the mission. All R11's are required to be sampled every 30 days, and the Bulk Storage tank every 14 days. That would mean assets are being locked out of service until they are able to be sampled and pass the requirements.</p>			
<p><u>IMPACT IF NOT PROVIDED:</u> A Fuels Laboratory is the first line of defense when it comes to clean, quality, "dry" fuel to ensure it is within specification for aircraft and is essential to the flight line mission. Without this lab and maintenance area, the base is not adequately equipped to support all incoming aircraft, vehicles, or other assets that are in need of being refueled during contingency. POL would need to continue to rely on ROKAF to provide fuel testing, which they can stop at any point, putting our assets at risk. There is no acceptable work around for the refueling vehicle shop and they would have to continue working outside in the elements to maintain the refueling fleet's assets. Also, the flight operations of follow-on forces to support "Fight Tonight" and "Take the Fight North" objectives would be severely impacted by delayed refueling operations.</p>			
<p><u>ADDITIONAL:</u> No portion of this facility is intended for Republic of Korea personnel exclusive or primary use. The project is located on an enduring installation which will be retained by United States Forces Korea (USFK) for the foreseeable future. The project meets applicable criteria/scope specified in AF Manual 32-1084, Facility Requirements. The initial cost estimate for this project is within DoD Pricing Guide parameters. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 December 2016. The Department of Defense Explosives Safety Board (DDESB) approval of the Explosive Safety Site Plan (ESSP) is required.</p>			
<p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an as available basis; however, the scope of the project is based on Air Force requirements. Refueling Vehicle Shop (214-467); 375 SM, Liquid Fuels Analysis Laboratory (141-766); 80 SM</p>			
<p><u>Base Civil Engineer:</u> 011-82-53-980-4985.</p>			

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA		4. PROJECT TITLE KOREA AIR AND SPACE OPERATIONS INTELLIGENCE CENTER (ROKFC IN-KIND)		
5. PROGRAM ELEMENT N/A	6. CATEGORY CODE 141-446	7. PROJECT NUMBER F15R680A	8. PROJECT COST (\$000) 306,000	
9. COST ESTIMATES:				
ITEM	U/M	QTY	UNIT COST	COST (\$000)
PRIMARY FACILITY				208,534
AIR OPERATIONS AND INTEL CENTER (141446)	SM	84,000	2,422	203,448
CYBERSECURITY OF FACILITY RELATIONS CONTROL SYSTEMS	LS			5,086
SUPPORTING FACILITIES				53,640
UTILITIES	LS			4,701
PAVEMENTS	LS			3,140
SITE IMPROVEMENTS	LS			22,544
COMMUNICATIONS	LS			1,818
PASSIVE FORCE PROTECTION MEASURES	LS			282
SPECIAL FOUNDATIONS	LS			4,040
TEMPORARY WAREHOUSE (SECURE STORAGE)	LS			2,000
BACKUP POWER GENERATORS	LS			14,740
DEMOLITION	LS			375
ESTIMATED CONTRACT				262,174
COST CONTINGENCY (10%)				26,217
SUBTOTAL				288,391
SUPERVISION, INSPECTION & OVERHEAD - 6.0%				17,303
TOTAL REQUEST				305,694
TOTAL REQUEST (ROUNDED)				306,000
EQUIPMENT FROM OTHER APPROPRIATIONS				60,250
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Utilize host nation funding to construct the Korea Air Operations and Intelligence Center (KAOIC). This project will be constructed using four different United States (US) and Republic of Korea (ROK) funding sources, each aligned with a separate Design Package (DP). This DD1391 addresses the Republic of Korea Funded Construction (ROKFC) In-Kind host-nation funding to fund the United States cost share of Design Package 1, which constructs the overall building superstructure, provides shared support, and finishes out the United States and Republic of Korea combined, and United States-only non-Controlled Spaces (CS). Prior to construction award, an approved Facilities & Areas Sub-Committee (FASC) Task will determine the actual cost split between the United States and the Republic of Korea. The Korea Air Operations and Intelligence Center project will provide a hardened operations and intelligence facility for the United States Seventh Air Force (7AF) and Republic of Korea Air Force Operations Command (AFOC) to support the combined Air and Space Operations missions of the Seventh Air Force and Air Force Operations Command and related identified missions for approximately 2,500 personnel. The facility shall include the Air Operations Center, the Mission Command and Reporting Center, and				



1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE APRIL 2022
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5. PROGRAM ELEMENT N/A	6. CATEGORY CODE 141-446	7. PROJECT NUMBER F15R680A	8. PROJECT COST (\$000) 306,000

and defends the Republic of Korea from attack from North Korea. It provides "ready to fight tonight" air power - precise, intense, and overwhelming; whenever and wherever needed. Republic of Korea Air Force Operations Command constantly keeps a watchful eye over the enemy and maintains a high-level combat readiness posture for immediate response. During wartime the Republic of Korea Air Force Operations Command establishes air superiority and provides support for ground and naval operations, while securing military operational capabilities throughout the Korean Peninsula. The new Korea Air Operations and Intelligence Center should establish the worldwide standard for operational level air, space and cyberspace major combat operations. Its mission is to plan, command, control, execute, and assess air, space, and information operations to meet all United States Department of Defense and Republic of Korea Ministry of National Defense tasking across the full spectrum of military operations. Osan Air Base is the operational location for the mission.

**CURRENT SITUATION:**

Seventh Air Force and Air Force Operations Command now conduct their air and space operations out of the two separate antiquated facilities - building 935, the 13,302 Square Meter (SM) Hardened Theater Air Control Center and building 940, the 10,762 Square Meter Korea Combat Operations Intelligence Center. Both of these existing hardened facilities were built between late 1970s and early 1980s which was before the current weapons systems were fully developed. As a result, the current facilities are poorly configured to support current missions functionally with many operational and life, health, safety deficiencies. Most facility communications and building infrastructure systems are inadequate due to antiquated infrastructure systems. Necessary agencies are highly fractured due to a lack of proper space and an inflexible and undersized building structure. Current spaces are not in conformance with the facility space guidelines stipulated by Air Force Manual 32-1084 "Civil Engineering, Facility Requirements" or the companion 16th Air Force Mission Critical Facility Engineering Standard.

**IMPACT IF NOT PROVIDED:**

This project provides mission readiness required to "fight tonight" and "start the fight". If this project is not provided, Seventh Air Force and Air Force Operations Command will continue to have unsafe, inadequate, undersized and inefficiently configured facilities to support the efficient execution of their missions. The lack of operations space will continue to impede operations and mission accomplishment. Support of missions will be seriously curtailed and personnel will continue to work in an inadequate environment. Mission effectiveness will continue to be degraded due to inadequate space and communication systems, and our war-fighting capabilities will continue to decrease.

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5. PROGRAM ELEMENT N/A	6. CATEGORY CODE 141-446	7. PROJECT NUMBER F15R680A	8. PROJECT COST (\$000) 306,000

**ADDITIONAL:**

A. JOINT USE CERTIFICATE: For United States exclusive use but can be used on an "as available" basis; however, the scope of the project is based on Air Force requirements. This facility will be available for use by the other components. The Deputy Assistant Secretary of the Air Force (Installations) certifies that this project has been considered for joint use potential.

B. HOST NATION: This project is located on an enduring installation which will be retained by United States Forces Korea (USFK) for the foreseeable future. The possibility of Host Nation funding has been addressed to support this requirement.

C. PHYSICAL AND CYBER SECURITY: This project has been coordinated with the installation physical security plan, and all physical security measures are included. This project aligns with HQ USAF/A4C MILCON Programming Guidance Memo for the Cybersecurity of Facility Related Control Systems, 11 January 2019.

D. ANTI TERRORISM/FORCE PROTECTION: All of the 21 Building Standards for Antiterrorism/Force Protection (AT/FP) will apply to this project, including a Mass Notification System, and site measures, which are outlined in Unified Facilities Criteria 4-010-01. All facilities will meet current Unified Facilities Criteria 4-010-01 standards for buildings and site. Major Antiterrorism/Force Protection (AT/FP) building features will include design for progressive collapse and blast resistant windows and an Emergency Air Distribution Shutoff, ensuring any roof access prevents anyone from entering the building by utilizing locking mechanism, and caged ladders that can be locked to prevent access.

E. SUSTAINABLE DESIGN AND DEVELOPMENT (SDD): Sustainable principles shall be integrated into the design, development, and construction of this project. This facility shall be designed to achieve energy consumption levels that are at least 30 percent below the levels established in the current version of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standard 90.1 or the International Energy Conservation Code, as appropriate. All equipment going into this facility must be Energy Star rated or on the Federal Energy Management Program (FEMP) approved list. All utilities shall be metered using advanced meters as defined by the Federal Energy Management Program.

F. Full fire protection is required by regulation and Unified Facilities Criteria 3-600-01 to include a fire alarm/suppression system; mass notification system (MNS) as required by Unified Facilities Criteria 4-010-01; access control systems; and connection to the utility monitoring control system (UMCS). Fire Alarm panels shall include zone module cards that can support 16 zones. These additional zones are required to transmit exact location data to the fire alarm

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5. PROGRAM ELEMENT N/A	6. CATEGORY CODE 141-446	7. PROJECT NUMBER F15R680A	8. PROJECT COST (\$000) 306,000
<p>computer located at the fire department emergency communication center through the use of a building transmitter installed meeting the building design.</p> <p>G. This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards and the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from the Air Force Civil Engineer Center. The design must comply with Osan Air Base's Installation Planning Standards.</p> <p>H. Comprehensive interior design package for the Architectural &amp; Engineering (AE) firm to complete as required by Unified Facilities Criteria 3-120-10.</p> <p>I. Flood Plain Statement: This project does not fall within or partly within the 100-year flood plain.</p> <p>J. The supporting facilities' costs exceed 25% of the primary facilities' costs due to extensive utilities, security lighting, redundancy power, site improvement work, communication runs, as well as associated site work by installing underground electrical duct banks including spoils, concrete, excavation and backfilling.</p> <p>K. FYDP Statement: This project was included in the Fiscal Year 2023 future years' defense plan in Fiscal Year FY 24-28.</p> <p>L. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>M. 51st Fighter Wing Base Civil Engineer: 011-82-31-661-4312.</p> <p>N. Korea Air Operations and Intelligence Center: 84,000 Square Meter = 904,169 Square Feet. Demolition: 34 Square Meter = 364 Square Feet and 2 each Athletic Fields.</p>			

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE APRIL 2022
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA		4. PROJECT TITLE UPGRADE ELECTRICAL DISTRIBUTION WEST, PH3		
5. PROGRAM ELEMENT N/A	6. CATEGORY CODE 812-225	7. PROJECT NUMBER F17R721	8. PROJECT COST (\$000) 235,000	
9. COST ESTIMATES				
ITEM	U/M	QTY	UNIT COST	COST (\$000)
PRIMARY FACILITY				147,732
PRIMARY DISTRIBUTION LINE UG (812-225)	LM	338,374	229	77,609
SECONDARY DISTRIBUTION LINE UG (812-226)	LM	17,081	133	2,269
ELECTRICAL SUBSTATION (813-231)	EA	1	60,815	60,815
SCADA COMMUNICATIONS SYSTEM	LS			5,039
CYBERSECURITY	LS			2,000
SUPPORTING FACILITIES				23,229
PAVEMENTS	LS			2,801
SITE IMPROVEMENTS	LS			6,879
UTILITIES	LS			9,308
COMMUNICATIONS SUPPORT	LS			541
CATV UPGRADE	LS			263
ENVIRONMENTAL CLEANUP	LS			1,753
TEMPORARY INFRASTRUCTURE IN CONSTRUCTION	LS			1,488
DEMOLITION	LM	22,922	9	196
ESTIMATED CONTRACT				170,961
COST CONTINGENCY (5%)				8,548
UTILITY CONNECTION FEE				42,000
SUBTOTAL				221,509
SUPERVISION, INSPECTION & OVERHEAD - 6.0%				13,291
TOTAL REQUEST				234,800
TOTAL REQUEST (ROUNDED)				235,000
EQUIPMENT FROM OTHER APPROPRIATIONS				750
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Utilize host-nation funding to add/alter Osan Air Base (AB)'s existing overhead electrical distribution system with an underground distribution system and connection of existing substations to new substation to improve reliability and to accommodate a 25+ Megawatt (MW) future load growth capacity. This project will demolish an existing overhead primary and secondary electrical distribution system. The project will also provide adequate power to future Osan Air Base (AB) electrical requirements. The project will include underground primary and secondary electrical lines, transformers, switches, two (2) primary power substation (US and KEPCO), Supervisory Control And Data Acquisition (SCADA) system, various utility work, security street lighting, repairs two (2) existing substations, re-routing of existing cable Television fiber lines, contaminated soil remediation, remediation of asbestos cement conduit lines, concrete ducts and manholes installation, shoring and dewatering of underground infrastructure, site improvements, pavements, communications infrastructure and all necessary				

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5. PROGRAM ELEMENT N/A	6. CATEGORY CODE 812-225	7. PROJECT NUMBER F17R721	8. PROJECT COST (\$000) 235,000

supporting work to deliver a complete and usable electrical distribution

The system should be compatible with applicable Department of Defense (DoD), Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria (UFC) 1-200-02. This includes preparation of a life-cycle cost analysis (LCCA) for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective (LCCE) is selected as the reason any requirement of Unified Facilities Criteria (UFC) 1-200-02 is partially compliant or not applicable. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facilities Criteria 4-010-01.

11. REQUIREMENT:

REQ: 355,455 LM                      ADQT: 0                      SUBSTD: 22,922 LM

PROJECT:

Upgrade Electrical Distribution System on West Area, Ph3

REQUIREMENT:

This project is required to provide a reliable, safe, and resilient power system to support the generation of airpower. Addition/alteration of the base electrical distribution system by replacing existing overhead lines to underground lines and update drainage in conjunction with providing new underground utilities will power existing Fighter Wing, Air Support Operations Group, Air Mobility Squadron, Air Defense Artillery, and Reconnaissance Squadron missions. Adding/altering an electrical sub-station and feeders will provide adequate electrical power to future munitions site, Korea Air Operations and Intelligence Center, and overflow mission sets from the United States Army Garrison Yongsan relocation. An underground distribution system requires less maintenance, is more reliable, and is storm resistant which makes it more resilient during armistice or contingency operations. Dormitories, munitions storage, aircraft maintenance and operations facilities, industrial facilities, and electrically operated equipment have been newly constructed or installed on Osan Air Base (AB) in recent years. However, the base electrical distribution system was not concurrently upgraded, thus leaving the overall system totally inadequate for Air Component Command's Command and Control and ability to launch/recovery aircraft. The project includes a 154 Kilovolt (kV) substation to provide a 13.8 Kilovolt (kV) distribution system for the base. The new



1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE APRIL 2022
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5. PROGRAM ELEMENT N/A	6. CATEGORY CODE 812-225	7. PROJECT NUMBER F17R721	8. PROJECT COST (\$000) 235,000	
<p>substation will provide the required 20.7 Mega Volt Ampere (MVA) load increase projected for the next five years. This upgrade will create redundancy in the system so that every feeder will be provided power from two different sources from two different directions.</p>				
<p><b>CURRENT SITUATION:</b></p> <p>The electrical system must be improved in order to ensure resilient and reliable power for essential peninsula-wide combat capabilities. The base's current power supply is insufficient to support the current and future power requirements, with peak loads in August 2016 at 82% of 30 Megawatt (MW) maximum capacity. Unscheduled power outages happen frequently and major outages occurred in April, June, and July 2017, impacting the Air Operations Center, Tech Control Facility and Distributed Common Ground System missions. 95 power outages occurred between August 2016 and August 2017 ranging from single to multiple facilities. These outages cause fires, degrade mission capability, and create unsafe conditions for personnel. 60% of major unscheduled outages in the last 3 years have occurred on these same feeders, indicating the overhead cable is reaching the end of its life span. A majority of the existing electrical distribution systems in these areas were installed during the 1980s, and no major repairs have been made with the exception of piecemeal upgrades and routine maintenance. Existing above ground system poles, hardware, and lines are almost reaching 30 years of age, whereas parts are obsolete, and the system is beyond its intended service life. In addition to system age, system design and weather events are also major contributing factors that cause frequent outages. During severe winter months, the switches freeze and become inoperable. Overhead lines and associated equipment attracts birds, which nest on the energized wires, contributing to power outages. These outages severely affect the ability of the power system to provide reliable and resilient power for operations at Osan Air Base (AB). The current distribution system is not designed or installed to be able to provide power from one substation to keep the base operational. A failure of any of the three off base substations providing power to the base would result in the installation operating at minimum level of reliability. The continued growth of area surrounding the base will result in higher load requirements that will put strain on the existing three substations. The current electrical system will not be able to accommodate a 25+ Megawatt (MW) future load growth which would either require four additional feeds to the base at 22.9 Kilovolt (kV) or two feeders at 154 Kilovolt (kV). The two existing substations have a total of four transformers including two redundant transformers and only 30 Megawatt (MW) distribution capability and these transformers will be able to take the future growth. If 22.9 Kilovolt (kV) is provided by the system, it will result in having to add two new substations and upgrading existing overhead utility feeds by rerouting them under ground.</p>				
<p><b>IMPACT IF NOT PROVIDED:</b></p> <p>The existing electrical system will continue to operate below acceptable levels for system protection and reliability. The existing electrical distribution</p>				

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3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA		4. PROJECT TITLE UPGRADE ELECTRICAL DISTRIBUTION WEST, PH3	
5. PROGRAM ELEMENT N/A	6. CATEGORY CODE 812-225	7. PROJECT NUMBER F17R721	8. PROJECT COST (\$000) 235,000
<p>system will continue to deteriorate such that the system may fail, resulting in a longer power outage affecting vast portions of the base. The effectiveness and efficiency for war fighting capabilities will be significantly degraded. The system will not be able to handle the additional load which is currently forecasted to be 25+ Megawatt (MW); this doubles the base's current demand on the system. The continued growth of the area surrounding the base will result in higher load requirements that will put strain on the existing three substations. Those off-base substations are unprotected. This is a security vulnerability and must be addressed in the next four years. A reliable electrical system is key for the base personnel to "fight tonight" and defend the freedom of 50 million people.</p> <p><b>ADDITIONAL:</b></p> <p><b>A. JOINT USE CERTIFICATE:</b> For United States (US) exclusive use but can be used on an "as available" basis; however, the scope of the project is based on Air Force requirements. This facility will be available for use by the other components.</p> <p><b>B. HOST NATION:</b> This project is located on an enduring installation which will be retained by United States Forces Korea (USFK) for the foreseeable future. The possibility of Host Nation funding has been addressed to support this requirement.</p> <p><b>C. PHYSICAL SECURITY:</b> This project has been coordinated with the installation physical security plan, and all physical security measures are included.</p> <p><b>D. ANTI TERRORISM/FORCE PROTECTION:</b> All of the 21 Building Standards for Antiterrorism/Force Protections (AT/FP) will apply to this project, including a Mass Notification System, and site measures, which are outlined in Unified Facilities Criteria (UFC) 4-010-01, dated 9 February 2012, change 1, 1 Oct 2013. All facilities will meet current Unified Facilities Criteria (UFC) 4-010-01 standards for buildings and site. Additional Antiterrorism/Force Protections (AT/FP) site features will be included such as concrete or metal pop-up bollards and barriers that are at least eight inches high in relation to road level to ensure stand-off distance is met in accordance with the reference above. Major Antiterrorism/Force Protections (AT/FP) building features will include design for progressive collapse and blast resistant windows and an Emergency Air Distribution Shutoff, ensuring any roof access prevents anyone from entering the building by utilizing locking mechanism, and caged ladders that can be locked to prevent access.</p> <p><b>E. SUSTAINABLE DESIGN AND DEVELOPMENT (SDD):</b> Sustainable principles shall be integrated into the design, development, and construction of this project. This facility shall be designed to achieve energy consumption levels that are at least 30 percent below the levels established in the current version of the ASHRAE Standard 90.1 or the International Energy Conservation Code, as</p>			

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE APRIL 2022
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA		4. PROJECT TITLE UPGRADE ELECTRICAL DISTRIBUTION WEST, PH3	
5. PROGRAM ELEMENT N/A	6. CATEGORY CODE 812-225	7. PROJECT NUMBER F17R721	8. PROJECT COST (\$000) 235,000
<p>appropriate. All equipment going into this facility must be Energy Star rated or on the Federal Energy Management Program (FEMP) approved list. All utilities shall be metered using advanced meters as defined by Federal Energy Management Program (FEMP).</p> <p>F. Full fire projection is required by regulation and Unified Facilities Criteria (UFC) 3-600-01 to include a fire alarm/suppression system; mass notification system (MNS) as required by Unified Facilities Criteria (UFC) 4-010-01; access control systems; and connection to the utility monitoring control system (UMCS). Fire Alarm panels shall include zone module cards that can support 16 zones. These additional zones are required to transmit exact location data to the computerized D-21 Monaco fire alarm computer located at the fire department communication center through the use of a BT-XM building transmitter installed at the building design.</p> <p>G. This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. The design must comply with OSAN Air Base (AB)' Installation Planning Standards.</p> <p>H. Comprehensive interior design package for the Architect Engineer (AE) to complete as required by Unified Facilities Criteria (UFC) 3-120-10.</p> <p>I. No portion of this facility is intended for Republic of Korea personnel exclusive or primary use.</p> <p>J. Flood Plain Statement: This project does not fall within or partly within the 100-year flood plain.</p> <p>K. FYDP Statement: This project was included in the Fiscal Year 2023 future years' defense plan in Fiscal Year FY 24-28.</p> <p>L. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>M. 51st Fighter Wing Base Civil Engineer: 011-82-31-661-4312.</p> <p>N. Add/alter electrical distribution system: 355,455 Linear Meter = 1,166,187 Linear Feet. Demolition: 22,922 Linear Meter = 75,203 Linear Feet.</p>			



# **Department of the Air Force**

## **Military Family Housing**

### **Fiscal Year (FY) 2023 Budget Estimates**

**Justification Data Submitted to  
Congress**

**April 2022**

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

MILITARY FAMILY HOUSING

	<u>Program (\$ in Thousands)</u>
FY 2023 Budget Request	\$588,010
FY 2022 Budget Request	\$441,161
FY 2022 Appropriation	\$441,161

NARRATIVE SUMMARY

This Military Family Housing budget request reflects the Air Force's commitment to ensure military personnel and their families have access to quality housing facilities and services. The Air Force relies on the local community to support military family housing needs. When community housing is unavailable or inadequate, the AF provides military family housing to support this requirement. We construct, replace, improve, or repair and maintain military family housing to meets contemporary standards.

The Air Force created the Family Housing Master Plan (FHMP) as the strategic planning and programming investment tool for government-owned, leased and privatized military family housing. This request funds the AF FHMP recommendations to sustain, improve and divest military family housing overseas, support privatized family housing, and lease family housing when necessary and fiscally appropriate.

Consistent with AF FHMP priorities, this budget provides a program that supports daily operations and the maintenance and repair of assets to sustain and prevent deterioration of our inventory. The operations, maintenance and leasing accounts predominantly support "must pay" requirements. These costs include service contracts, lease contracts, utilities, and essential maintenance to operate the units and contract funding to correct life safety, health, and facility preservation issues that cannot wait for family housing construction funding.

We respectfully request full support for the Air Force family housing needs presented herein.



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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

FINANCIAL SUMMARY

**AUTHORIZATION FOR APPROPRIATION  
REQUESTED FOR FY 2023:**

**(\$000)**

**FUNDING REQUEST FOR FY 2023**

Construction	\$0
Construction Improvements	\$230,058
Planning and Design	\$2,730
<u>Appropriation Request: Construction</u>	<u>\$232,788</u>
<u>Operations, Utilities, and Maintenance</u>	<u>\$313,823</u>
Operating Expenses	\$117,231
Utilities	\$46,217
Maintenance	\$150,375
Housing Privatization	\$33,517
Leasing - Worldwide	\$7,882
<u>Appropriation Request: O&amp;M, Leasing, Housing Privatization</u>	<u>\$355,222</u>
<u>Appropriation Request</u>	<u>\$588,010</u>
Reimbursement Request	\$2,500
<b>FY 2023 FAMILY HOUSING REQUEST</b>	<b>\$590,510</b>

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**DEPARTMENT OF AIR FORCE**  
**FH-11 Inventory and Condition of Government-Owned, Family Housing Units**  
**(Number of Dwelling Units in Inventory)**  
**Fiscal Year 2023**

Worldwide

	Number of Units- Worldwide						
	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
<b>Beginning of FY Adequate Inventory Total</b>	<b>12,015</b>	<b>12,386</b>	<b>11,697</b>	<b>11,533</b>	<b>11,041</b>	<b>10,421</b>	<b>9,983</b>
FCI of 90% to 100% (Good Condition)	7,047	10,287	9,639	8,806	7,005	5,260	5,335
FCI of 80% to 89% (Fair Condition)	4,968	2,099	2,058	2,727	4,036	5,161	4,648
<b>Beginning of FY Inadequate Inventory Total</b>	<b>3,245</b>	<b>2,887</b>	<b>3,477</b>	<b>3,377</b>	<b>3,760</b>	<b>4,245</b>	<b>4,467</b>
FCI of 60% to 79% (Poor Condition)	1,875	2,542	3,221	3,201	3,575	4,036	4,254
FCI of 59% and below (Failing Condition)	1,370	345	256	176	185	209	213
<b>Beginning of FY Total Inventory</b>	<b>15,260</b>	<b>15,273</b>	<b>15,174</b>	<b>14,910</b>	<b>14,801</b>	<b>14,666</b>	<b>14,450</b>
<b>Percent Adequate - Beginning of FY Inventory</b>	<b>79%</b>	<b>81%</b>	<b>77%</b>	<b>77%</b>	<b>75%</b>	<b>71%</b>	<b>69%</b>
<b>Inadequate Inventory Reduced Through:</b>	<b>(358)</b>	<b>590</b>	<b>(100)</b>	<b>383</b>	<b>485</b>	<b>222</b>	<b>1,238</b>
Construction (FHCON)	(117)	(44)	0	(1)	(54)	(42)	(90)
Maintenance & Repair (FHO&M)	(61)	(100)	(138)	(76)	(113)	(134)	(83)
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	(9)	(92)	(189)	(46)	(76)	(86)	(72)
Funded by Host Nation	0	0	0	0	0	0	0
Additional Inadequate Units Identified	(171)	826	227	506	728	484	1,483
<b>Adequate Inventory Changes:</b>	<b>371</b>	<b>(689)</b>	<b>(164)</b>	<b>(492)</b>	<b>(620)</b>	<b>(438)</b>	<b>(1,158)</b>
Construction (FHCON)	117	44	0	3	83	42	90
Maintenance & Repair (FHO&M)	61	100	138	76	113	134	83
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	22	(76)	(86)	(65)	(88)	(130)	(72)
Funded by Host Nation	0	69	11	0	0	0	224
Additional Adequate Units Identified	171	(826)	(227)	(506)	(728)	(484)	(1,483)
<b>End of FY Adequate Inventory Total</b>	<b>12,386</b>	<b>11,697</b>	<b>11,533</b>	<b>11,041</b>	<b>10,421</b>	<b>9,983</b>	<b>8,825</b>
FCI of 90% to 100% (Good Condition)	10,287	9,639	8,806	7,005	5,260	5,335	4,750
FCI of 80% to 89% (Fair Condition)	2,099	2,058	2,727	4,036	5,161	4,648	4,075
<b>End of FY Inadequate Inventory Total</b>	<b>2,887</b>	<b>3,477</b>	<b>3,377</b>	<b>3,760</b>	<b>4,245</b>	<b>4,467</b>	<b>5,705</b>
FCI of 60% to 79% (Poor Condition)	2,542	3,221	3,201	3,575	4,036	4,254	5,291
FCI of 59% and below (Failing Condition)	345	256	176	185	209	213	414
<b>End of FY Total Inventory</b>	<b>15,273</b>	<b>15,174</b>	<b>14,910</b>	<b>14,801</b>	<b>14,666</b>	<b>14,450</b>	<b>14,530</b>
<b>Percent Adequate - End of FY Inventory</b>	<b>81%</b>	<b>77%</b>	<b>77%</b>	<b>75%</b>	<b>71%</b>	<b>69%</b>	<b>61%</b>
<b>DoD Performance Goal - 90% of world-wide family housing inventory at FCI of at least 80% (Good or Fair Condition)</b>	<b>90%</b>	<b>90%</b>	<b>90%</b>	<b>90%</b>	<b>90%</b>	<b>90%</b>	<b>90%</b>

NOTES:

- 1 - Facility Condition Index (FCI) is a general measure of the physical condition of the facility. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition.
- 2 - Assessment data and investment, sustainment, and divestiture strategy for the worldwide AF government-owned inventory is based on the Housing Community Profiles (HCP) and the Family Housing Master Plan (FHMP). The FHMP includes reviews and updates to condition data based on project execution and data reviews. An adjustment of scores is shown in the FY22 inventory changes.
- 3 - Units with <60 FCI scores include units at Okinawa planned for replacement and land return; and units impacted by the European Infrastructure Consolidation (EIC) changes. Projects for the EIC changes are identified in the FMHP in FY25-30 investment planning.
- 4 - A portion of the inadequate inventory retained at Yokota and Misawa is being used for swing space during renovations.
- 5 - There is a large drop in future inadequate units in FY27. This is due to the increased number of units that were renovated between 2010-2012 (avg. 1,100 units/year), versus units renovated between 2003-2009 (avg. of only 300 units/year). The year the FCI score becomes <80 FCI varies based on the level of renovations. The projected future inadequate units in FY27-FY30 is an average of 888 units/year, with FY27 the highest number at 1,483.
- 6 - Condition of units are evaluated through on-going HCPs, and the FCI scores are updated through that process. Most installations will have a new HCPs between 2021-2023. Next FHMP will reflect the updated condition evaluation for a large portion of the inventory.

**DEPARTMENT OF AIR FORCE**  
**FH-11 Inventory and Condition of Government-Owned, Family Housing Units**  
**(Number of Dwelling Units in Inventory)**  
**Fiscal Year 2023**

UNITED STATES (CONUS plus Hawaii and Alaska)

	Number of Units- U.S.						
	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
<b>Beginning of FY Adequate Inventory Total</b>	<b>84</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>31</b>	<b>31</b>	<b>52</b>
FCI of 90% to 100% (Good Condition)	30	30	30	30	31	31	52
FCI of 80% to 89% (Fair Condition)	54	0	0	0	0	0	0
<b>Beginning of FY Inadequate Inventory Total</b>	<b>27</b>	<b>72</b>	<b>62</b>	<b>62</b>	<b>46</b>	<b>46</b>	<b>10</b>
FCI of 60% to 79% (Poor Condition)	27	72	62	62	46	46	10
FCI of 59% and below (Failing Condition)	0	0	0	0	0	0	0
<b>Beginning of FY Total Inventory</b>	<b>111</b>	<b>102</b>	<b>92</b>	<b>92</b>	<b>77</b>	<b>77</b>	<b>62</b>
<b>Percent Adequate - Beginning of FY Inventory</b>	<b>76%</b>	<b>29%</b>	<b>33%</b>	<b>33%</b>	<b>40%</b>	<b>40%</b>	<b>84%</b>
<b>Inadequate Inventory Reduced Through:</b>	<b>45</b>	<b>(10)</b>	<b>0</b>	<b>(16)</b>	<b>0</b>	<b>(36)</b>	<b>0</b>
Construction (FHCON)	0	0	0	(1)	0	(20)	0
Maintenance & Repair (FHO&M)	0	0	0	0	0	(1)	0
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	(9)	(10)	0	(15)	0	(15)	0
Funded by Host Nation	0	0	0	0	0	0	0
Additional Inadequate Units Identified	54	0	0	0	0	0	0
<b>Adequate Inventory Changes:</b>	<b>(54)</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>21</b>	<b>0</b>
Construction (FHCON)	0	0	0	1	0	20	0
Maintenance & Repair (FHO&M)	0	0	0	0	0	1	0
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	0	0	0	0	0	0	0
Funded by Host Nation	0	0	0	0	0	0	0
Additional Inadequate Units Identified	(54)	0	0	0	0	0	0
<b>End of FY Adequate Inventory Total</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>31</b>	<b>31</b>	<b>52</b>	<b>52</b>
FCI of 90% to 100% (Good Condition)	30	30	30	31	31	52	52
FCI of 80% to 89% (Fair Condition)	0	0	0	0	0	0	0
<b>End of FY Inadequate Inventory Total</b>	<b>72</b>	<b>62</b>	<b>62</b>	<b>46</b>	<b>46</b>	<b>10</b>	<b>10</b>
FCI of 60% to 79% (Poor Condition)	72	62	62	46	46	10	10
FCI of 59% and below (Failing Condition)	0	0	0	0	0	0	0
<b>End of FY Total Inventory</b>	<b>102</b>	<b>92</b>	<b>92</b>	<b>77</b>	<b>77</b>	<b>62</b>	<b>62</b>
<b>Percent Adequate - End of FY Inventory</b>	<b>29%</b>	<b>33%</b>	<b>33%</b>	<b>40%</b>	<b>40%</b>	<b>84%</b>	<b>84%</b>
NOTES:							
<p>1 - Facility Condition Index (FCI) is a general measure of the physical condition of the facility. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition.</p> <p>2 - Wright Patterson assessment in FY18 identified the majority of the units as adequate at the beginning of the FYDP. However, the expected component repairs and life cycle renewals will result in the units becoming inadequate by FY22. The FHMP identifies FHCON projects for Key and Essential (K&amp;E) at 29 historic units in FY20, and a second project in FY26 for 20 units. One K&amp;E unit was completed through and FHO&amp;M project in FY19 (end of year funds). Divestiture is identified for all 40 remaining units, with 10 units in FY22, 15 units in FY24, 15 units in FY26, and 10 units in FY29.</p> <p>3 - United States Air Force Academy (USAFA) includes two General Officer Quarters (GOQs) in the government-owned inventory; one is identified for an FHCON new construction project in FY24 the other as and FHO&amp;M project in FY26. Execution to be finalized with appropriate approvals.</p> <p>4 - Nine government-owned units at Eglin are identified for divestiture in FY21 in the budget tables. Due to delays in construction of the privatized units, execution of divestiture is anticipated in FY22-FY23.</p>							

**DEPARTMENT OF AIR FORCE**  
**FH-11 Inventory and Condition of Government-Owned, Family Housing Units**  
**(Number of Dwelling Units in Inventory)**  
**Fiscal Year 2023**

**FOREIGN (includes U.S. Territories)**

	Number of Units- Foreign						
	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
<b>Beginning of FY Adequate Inventory Total</b>	11,931	12,356	11,667	11,503	11,010	10,390	9,931
FCI of 90% to 100% (Good Condition)	7,017	10,257	9,609	8,776	6,974	5,229	5,283
FCI of 80% to 89% (Fair Condition)	4,914	2,099	2,058	2,727	4,036	5,161	4,648
<b>Beginning of FY Inadequate Inventory Total</b>	<b>3,218</b>	<b>2,815</b>	<b>3,415</b>	<b>3,315</b>	<b>3,714</b>	<b>4,199</b>	<b>4,457</b>
FCI of 60% to 79% (Poor Condition)	1,848	2,470	3,159	3,139	3,529	3,990	4,244
FCI of 59% and below (Failing Condition)	1,370	345	256	176	185	209	213
<b>Beginning of FY Total Inventory</b>	<b>15,149</b>	<b>15,171</b>	<b>15,082</b>	<b>14,818</b>	<b>14,724</b>	<b>14,589</b>	<b>14,388</b>
<b>Percent Adequate - Beginning of FY Inventory</b>	<b>79%</b>	<b>81%</b>	<b>77%</b>	<b>78%</b>	<b>75%</b>	<b>71%</b>	<b>69%</b>
<b>Inadequate Inventory Reduced Through:</b>	<b>(403)</b>	<b>600</b>	<b>(100)</b>	<b>399</b>	<b>485</b>	<b>258</b>	<b>1,238</b>
Construction (FHCON)	(117)	(44)	0	0	(54)	(22)	(90)
Maintenance & Repair (FHO&M)	(61)	(100)	(138)	(76)	(113)	(133)	(83)
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	0	(82)	(189)	(31)	(76)	(71)	(72)
Funded by Host Nation	0	0	0	0	0	0	0
Additional Inadequate Units Identified	(225)	826	227	506	728	484	1,483
<b>Adequate Inventory Changes:</b>	<b>425</b>	<b>(689)</b>	<b>(164)</b>	<b>(493)</b>	<b>(620)</b>	<b>(459)</b>	<b>(1,158)</b>
Construction (FHCON)	117	44	0	2	83	22	90
Maintenance & Repair (FHO&M)	61	100	138	76	113	133	83
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	22	(76)	(86)	(65)	(88)	(130)	(72)
Funded by Host Nation	0	69	11	0	0	0	224
Additional Inadequate Units Identified	225	(826)	(227)	(506)	(728)	(484)	(1,483)
<b>End of FY Adequate Inventory Total</b>	<b>12,356</b>	<b>11,667</b>	<b>11,503</b>	<b>11,010</b>	<b>10,390</b>	<b>9,931</b>	<b>8,773</b>
FCI of 90% to 100% (Good Condition)	10,257	9,609	8,776	6,974	5,229	5,283	4,698
FCI of 80% to 89% (Fair Condition)	2,099	2,058	2,727	4,036	5,161	4,648	4,075
<b>End of FY Inadequate Inventory Total</b>	<b>2,815</b>	<b>3,415</b>	<b>3,315</b>	<b>3,714</b>	<b>4,199</b>	<b>4,457</b>	<b>5,695</b>
FCI of 60% to 79% (Poor Condition)	2,470	3,159	3,139	3,529	3,990	4,244	5,281
FCI of 59% and below (Failing Condition)	345	256	176	185	209	213	414
<b>End of FY Total Inventory</b>	<b>15,171</b>	<b>15,082</b>	<b>14,818</b>	<b>14,724</b>	<b>14,589</b>	<b>14,388</b>	<b>14,468</b>
<b>Percent Adequate - End of FY Inventory</b>	<b>81%</b>	<b>77%</b>	<b>78%</b>	<b>75%</b>	<b>71%</b>	<b>69%</b>	<b>61%</b>

NOTES:

- 1 - Facility Condition Index (FCI) is a general measure of the physical condition of the facility. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition.
- 2 - Assessment data and investment, sustainment, and divestiture strategy for the worldwide AF government-owned inventory is based on the Housing Community Profiles (HCP) and the Family Housing Master Plan (FHMP). The FHMP includes reviews and updates to condition data based on project execution and data reviews. An adjustment of scores is shown in the FY22 inventory changes.
- 3 - Units with <60 FCI scores include units at Okinawa planned for replacement and land return; and units impacted by the European Infrastructure Consolidation (EIC) changes. Projects for the EIC changes are identified in the FMHP in FY25-30 investment planning.
- 4 - A portion of the inadequate inventory retained at Yokota and Misawa is being used for swing space during renovations.
- 5 - There is a large drop in future inadequate units in FY27. This is due to the increased number of units that were renovated between 2010-2012 (avg. 1,100 units/year), versus units renovated between 2003-2009 (avg. of only 300 units/year). The year the FCI score becomes <80 FCI varies based on the level of renovations. The projected future inadequate units in FY27-FY30 is an average of 888 units/year, with FY27 the highest number at 1,485.
- 6 - Condition of units are evaluated through on-going HCPs, and the FCI scores are updated through that process. Most installations will have a new HCPs between 2021-2023. Next FHMP will reflect the updated condition evaluation for a large portion of the inventory.

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**DEPARTMENT OF AIR FORCE**  
**FH-11 Inventory and Condition of Government-Owned, Family Housing Units**  
**(Number of Dwelling Units in Inventory)**  
**Fiscal Year 2023**

Transitional

	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>
<b>Beginning of FY Adequate Inventory Total</b>	<b>163</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
FCI of 90% to 100% (Good Condition)	142	0	0	0	0	0	0
FCI of 80% to 89% (Fair Condition)	21	0	0	0	0	0	0
<b>Beginning of FY Inadequate Inventory Total</b>	<b>569</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
FCI of 60% to 79% (Poor Condition)	442	0	0	0	0	0	0
FCI of 59% and below (Failing Condition)	127	0	0	0	0	0	0
<b>Beginning of FY Total Inventory</b>	<b>732</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Percent Adequate - Beginning of FY Inventory</b>	<b>22%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>
<b>Inadequate Inventory Reduced Through:</b>							
Construction (FHCON)	(569)	0	0	0	0	0	0
Maintenance & Repair (FHO&M)	0	0	0	0	0	0	0
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	(569)	0	0	0	0	0	0
Funded by Host Nation	0	0	0	0	0	0	0
Additional Inadequate Identified	0	0	0	0	0	0	0
<b>Adequate Inventory Changes:</b>							
Privatization	(163)	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	(163)	0	0	0	0	0	0
Additional Inadequate Identified	0	0	0	0	0	0	0
<b>End of FY Adequate Inventory Total</b>							
FCI of 90% to 100% (Good Condition)	0	0	0	0	0	0	0
FCI of 80% to 89% (Fair Condition)	0	0	0	0	0	0	0
<b>End of FY Inadequate Inventory Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
FCI of 60% to 79% (Poor Condition)	0	0	0	0	0	0	0
FCI of 59% and below (Failing Condition)	0	0	0	0	0	0	0
<b>End of FY Total Inventory</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Percent Adequate - End of FY Inventory</b>							
	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>

NOTES:

- 1 - The definition of transitional family housing (FH) are units that are at enduring and non-enduring sites 1) as a result of organizational deactivations, consolidation (e.g. Europe Infrastructure Consolidation (EIC), etc.) and relocation efforts; 2) where FH units have been identified by the Services as surplus and not currently occupied; and 3) in both cases, the Service has planned, documented, funded and/or announced the divestiture, demolition, or transfer of these units in the Future Years Defense Program (FYDP).
2. Units are removed from "Transitional Inventory", if the units have either been divested through demolition, diversion, or conversion to another use; OR are no longer considered "Transitional" by the definition written above.
- 3 - The European Infrastructure Consolidation (EIC) updates have impacted manpower requirements for bases in England and Germany. EIC updates identify increased manpower at RAF Alconbury, RAF Lakenheath, and RAF Mildenhall, therefore most units are no longer considered surplus units. The upcoming Housing Community Profile (HCP) will develop recommendations to meet the new Housing Requirement and Market Analysis (HRMA). RAF Mildenhall and RAF Feltwell (supports RAF Lakenheath) transitional inventory is removed in FY21.
- 4 - Misawa and Yokota have units identified as surplus based on the 2017 HCPs; however the units continue to be used as swing space. These units, previously identified as transitional inventory, are removed from transitional until the new HRMAs (in execution) and HCPs (planned in FY22) are finalized with updated requirements and divestiture identified.
- 5 - Facility Condition Index (FCI) is a general measure of the physical condition of the facility. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition.



**DEPARTMENT OF AIR FORCE**  
**FH-11 Inventory and Condition of Government-Owned, Family Housing Units**  
**(Number of Dwelling Units in Inventory)**  
**Fiscal Year 2023**

Transitional Unit Details by Location

<u>State/Country</u>	<u>Installation</u>	<u>N/E<sup>2</sup></u>	<u>Change in Transitional Units</u>	<u>Condition (FCD)<sup>3</sup></u>	<u>Explanation</u>
<b>FY 2021</b>					
Japan	Misawa	N > E	(232)	2/3	Units identified as surplus based on 2017 HCP; however, the units have continued to be used as swing space. Removed units from transitional inventory until new HRMA (in execution) and HCP (planned for FY22) identify the new requirements.
Japan	Yokota AB	N > E	(145)	3/4	Units identified as surplus based on 2017 HCP; however, the units have continued to be used as swing space. Removed units from transitional inventory until new HRMA (in execution) and HCP (planned for FY22) identify the new requirements.
United Kingdom	RAF Feltwell	N > E	(246)	1/2/3/4	EIC updates identify additional requirements for RAF Lakenheath / RAF Mildenhall. All transitional inventory is being removed and identified as sustainment until EIC, HRMA, and HCPs are finalized.
United Kingdom	RAF Mildenhall	N > E	(109)	2/4	EIC updates identify additional requirements for RAF Lakenheath / RAF Mildenhall. All transitional inventory is being removed and identified as sustainment until EIC, HRMA, and HCPs are finalized.
<b>FY 2021 Transitional Unit Changes</b>			<b>(732)</b>		
<b>FY 2022</b>					
<b>FY 2022 Transitional Unit Changes</b>			<b>0</b>		
<b>FY 2023</b>					
<b>FY 2023 Transitional Unit Changes</b>			<b>0</b>		
<b>FY 2024</b>					
<b>FY 2024 Transitional Unit Changes</b>			<b>0</b>		
<b>FY 2025</b>					
<b>FY 2025 Transitional Unit Changes</b>			<b>0</b>		
<b>FY 2026</b>					

**DEPARTMENT OF AIR FORCE**  
**FH-11 Inventory and Condition of Government-Owned, Family Housing Units**  
**(Number of Dwelling Units in Inventory)**  
**Fiscal Year 2023**

<u>State/Country</u>	<u>Installation</u>	<u>N/E<sup>2</sup></u>	<u>Change in Transitional Units</u>	<u>Condition (FCI)<sup>3</sup></u>	<u>Explanation</u>
<b>FY 2026 Transitional Unit Changes</b>					
			0		
<b>FY 2027</b>					
<b>FY 2027 Transitional Unit Changes</b>					
			0		
<b>Total</b>			(732)		
NOTES:					
<p>1 - The definition of transitional family housing (FH) are units that are at enduring and non-enduring sites 1) as a result of organizational deactivations, consolidation (e.g. Europe Infrastructure Consolidation (EIC), etc.) and relocation efforts; 2) where FH units have been identified by the Services as surplus and not currently occupied; and 3) in both cases, the Service has planned, documented, funded and/or announced the divestiture, demolition, or transfer of these units in the Future Years Defense Program (FYDP).</p> <p>2. Units are removed from "Transitional Inventory", if the units have either been divested through demolition, diversion, or conversion to another use; OR are no longer considered "Transitional" by the definition written above.</p> <p>3 - Table identifies the change to transitional units. Negative numbers identify transitional units removed from the "Transitional" inventory. Positive numbers identify the additional transitional inventory.</p> <p>4 - The European Infrastructure Consolidation (EIC) updates have impacted manpower requirements for bases in England and Germany. EIC updates identified increased manpower at RAF Alconbury, RAF Lakenheath, and RAF Mildenhall, therefore most units are no longer considered surplus units. The upcoming Housing Community Profile (HCP) will develop recommendations to meet the new Housing Requirement and Market Analysis (HRMA). RAF Mildenhall and RAF Feltwell (supports RAF Lakenheath) transitional inventory is removed in FY21 based on the EIC change.</p> <p>5 - Misawa and Yokota have units identified as surplus based on the 2017 HCPs; however the units continue to be used as swing space. These units, previously identified as transitional inventory, are removed from transitional until the new HRMAs (in execution) and HCPs (planned in FY22) are finalized with updated requirements and divestiture identified.</p> <p>6 - Non-enduring locations annotated by use of "N", while Enduring locations annotated by use of "E".</p> <p>7 - Facility Condition Index (FCI) is a general measure of the physical condition of the facility. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition. Facility Condition Index bands:</p> <ul style="list-style-type: none"> <li>1 - FCI of 90% to 100% (Good Condition)</li> <li>2 - FCI of 80% to 89% (Fair Condition)</li> <li>3 - FCI of 60% to 79% (Poor Condition)</li> <li>4 - FCI of 59% and below (Failing Condition)</li> </ul>					

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

**FH-8 Air Force Inadequate Family Housing Units Eliminated in FY 2021**

<b>MAJCOM</b>	<b>Project Type</b>	<b>Base</b>	<b><u>Total Inventory Minus Leased &amp; Privatized</u></b>	<b><u>Total Inadequate Inventory</u></b>	<b><u>Total Inadequate Addressed</u></b>
<b>Units at Beginning of FY 2021</b>			<b>15,260</b>	<b>3,245</b>	
<b>Additional Inadequate Units Identified</b>			<b>0</b>	<b>(171)</b>	<b>0</b>
	FHMP Condition Data Updates		0	(171)	0
<b>FY 2021 Family Housing Construction, Improvement, and O&amp;M Projects to Eliminate Inadequate Units</b>			<b>0</b>	<b>(178)</b>	<b>178</b>
PACAF	FHO&M project	Misawa	0	(49)	49
PACAF	FHCON project	Okinawa	0	(117)	117
PACAF	FHO&M project	Yokota	0	(12)	12
<b>Privatization Projects Executed</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>Units Demolished/Divested FY 2021</b>			<b>13</b>	<b>(9)</b>	<b>9</b>
AFMC	Divest	Eglin	(9)	(9)	9
USAFE	Planned Acquisition	RAF Fairford	22	0	0
			0	0	0
<b>Units Added to Family Housing</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>Deficit</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>Host Nation Construction projects</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>Units at End of FY 2021</b>			<b>15,273</b>	<b>2,887</b>	<b>187</b>
NOTES:					
<p>1 - Family Housing Military Construction (FHCON) and Family Housing Operations and Maintenance (FHO&amp;M) investments are based on the Housing Community Profile (HCP) and Family Housing Master Plan (FHMP). Inventory reflects the FY21 FHCON and FHO&amp;M projects.</p> <p>2 - The 2020 FHMP included reviews and updates to condition data based on project execution and data reviews. An adjustment of scores is shown in the FY21 inventory changes.</p> <p>3 - Divestiture is based on Family Housing Master Plan updates.</p> <p>4 - Royal Air Force (RAF) Fairford - inventory includes 22 previously divested housing units added into the inventory in FY21 based on the 2018-2019 European Infrastructure Consolidation (EIC) basing decisions. However, the inventory has not been changed in Real Property, and the most recent EIC change in 2020 identified a significant decrease in manpower at Fairford. Therefore these units are identified to be removed from the MFH inventory in FY22 (refer to FY22 table).</p>					

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

**FH-8 Air Force Inadequate Family Housing Units Eliminated in FY 2022**

<u>MAJCOM</u>	<u>Project Type</u>	<u>Base</u>	<u>Total Inventory Minus Leased &amp; Privatized</u>	<u>Total Inadequate Inventory</u>	<u>Total Inadequate Addressed</u>
<b>Units at Beginning of FY 2022</b>			<b>15,273</b>	<b>2,887</b>	
<b>Additional Inadequate Units Identified</b>			<b>0</b>	<b>826</b>	<b>0</b>
PACAF	Condition Adjustment	Misawa	0	8	0
PACAF	Condition Adjustment	Okinawa	0	630	0
PACAF	Condition Adjustment	Yokota	0	186	0
USAFE	Condition Adjustment	RAF Alconbury	0	2	0
<b>FY 2022 Family Housing Construction, Improvement, and O&amp;M Projects to Eliminate Inadequate Units</b>			<b>0</b>	<b>(144)</b>	<b>212</b>
PACAF	FHO&M project	Misawa	0	(32)	32
PACAF	FHO&M project	Okinawa	0	(68)	136
PACAF	FHCON projects	Yokota	0	(44)	44
<b>Privatization Projects Executed</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>Units Demolished/Divested FY 2022</b>			<b>(92)</b>	<b>(92)</b>	<b>92</b>
AFMC	Demolition	Wright Patterson	(10)	(10)	10
USAFE	Demolition	RAF Alconbury	(52)	(52)	52
USAFE	Divestiture	RAF Croughton	(8)	(8)	8
USAFE	Divestiture (See note 3)	RAF Fairford	(22)	(22)	22
<b>Units Added to Family Housing</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>Deficit Construction</b>			<b>(76)</b>	<b>0</b>	<b>0</b>
USAFE	FY20 project cancelled (See note 4)	Spangdahlem AB	(76)	0	0
<b>Host Nation Construction projects</b>			<b>69</b>	<b>0</b>	<b>0</b>
PACAF	Special Actions Committee of Okinawa (SACO) (See note 5)	Okinawa	56	0	0
PACAF	Japanese Facilities Improvement Program (JFIP) (See note 5)	Okinawa	13	0	0
<b>Units at End of FY 2022</b>			<b>15,174</b>	<b>3,477</b>	<b>304</b>
NOTES:					
1 - Family Housing Military Construction (FHCON) and Family Housing Operations and Maintenance (FHO&M) investments are based on the Housing Community Profile (HCP) and Family Housing Master Plan (FHMP). Inventory reflects the FY21 FHCON and FHO&M projects.					
2 - Divestiture is based on Family Housing Master Plan updates with input from the installations and AFIMSC Detachments.					
3 - Royal Air Force (RAF) Fairford - inventory includes 22 previously divested housing units added into the inventory in FY21 based on the 2018-2019 European Infrastructure Consolidation (EIC) basing decisions. However, the inventory has not been changed in Real Property, and the most recent EIC change in 2020 identified a significant decrease in manpower at Fairford. Therefore these units are identified to be removed from the MFH inventory in FY22.					
4 - Spangdahlem - the FY20 deficit construction project was cancelled. Therefore, these units which were added in the FY20 budget tables are being removed from the MFH inventory in FY22.					
5 - Okinawa - the Host Nation projects funded by the Government of Japan (GOJ) include replacement construction at the United States Marines Corps (USMC) built through the Special Actions Committee of Okinawa (SACO) program, and replacement construction at Kadena Air Base (AB) through the Japanese Facilities Improvement Program (JFIP). Project updates have been provided by the installation and AFIMSC Detachment 2.					

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

**FH-8 Air Force Inadequate Family Housing Units Eliminated in FY 2023**

<u>MAJCOM</u>	<u>Project Type</u>	<u>Base</u>	<u>Total Inventory Minus Leased &amp; Privatized</u>	<u>Total Inadequate Inventory</u>	<u>Total Inadequate Addressed</u>
<b>Units at Beginning of FY 2023</b>			<b>15,174</b>	<b>3,477</b>	
<b>Additional Inadequate Units Identified</b>			<b>0</b>	<b>227</b>	<b>0</b>
PACAF	Condition Adjustment	Misawa	0	76	0
PACAF	Condition Adjustment	Okinawa	0	12	0
PACAF	Condition Adjustment	Osan	0	4	0
PACAF	Condition Adjustment	Yokota	0	66	0
USAFE	Condition Adjustment	KMC	0	1	0
USAFE	Condition Adjustment	RAF Croughton	0	16	0
USAFE	Condition Adjustment	RAF Lakenheath	0	50	0
USAFE	Condition Adjustment	Spangdahlem	0	2	0
<b>FY 2023 Family Housing Construction, Improvement, and O&amp;M Projects to Eliminate Inadequate Units</b>			<b>0</b>	<b>(138)</b>	<b>138</b>
PACAF	FHO&M	Okinawa	0	(68)	68
PACAF	FHO&M	Yokota	0	(70)	70
<b>Privatization Projects Executed</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>Units Demolished/Divested FY 2023</b>			<b>(275)</b>	<b>(189)</b>	<b>189</b>
PACAF	Divestiture	Misawa	(68)	0	0
PACAF	Demolition (See note 3)	Okinawa	(111)	(111)	111
PACAF	Demolition (See note 4)	Yokota	(8)	(8)	8
PACAF	Divestiture (See note 4)	Yokota	(70)	(70)	70
USAFE	Demolition (See note 5)	Spangdahlem	(18)	0	0
<b>Units Added to Family Housing</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>Deficit Construction</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>Host Nation Construction projects</b>			<b>11</b>	<b>0</b>	<b>0</b>
PACAF	Japanese Facilities Improvement Program (JFIP) (See note 6)	Okinawa	11	0	0
<b>Units at End of FY 2023</b>			<b>14,910</b>	<b>3,377</b>	<b>327</b>
NOTES:					
1 - Family Housing Military Construction (FHCON) and Family Housing Operations and Maintenance (FHO&M) investments are based on the Housing Community Profile (HCP) and Family Housing Master Plan (FHMP). Inventory reflects the FY21 FHCON and FHO&M projects.					
2 - Divestiture is based on Family Housing Master Plan updates with input from the installations and AFIMSC Detachments.					
3 - Okinawa - demolition is planned and funded by the Government of Japan (GOJ) for future replacement construction at the United States Marines Corps (USMC) area through the Special Actions Committee of Okinawa (SACO) program.					
4 - Yokota - demolition is identified for 8 units to make way for road construction, and 70 units are identified for conversion to a contingency dormitory.					
5 - Spangdahlem - divest/demolition is identified for one stairwell building, based on the new updated HRMA.					
6 - Okinawa - the Host Nation project funded by the Government of Japan (GOJ) includes replacement construction at Kadena Air Base (AB) through the Japanese Facilities Improvement Program (JFIP). Project update has been provided by the installation and AFIMSC Detachment 2.					

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

SEC. 2302. FAMILY HOUSING

(a) IMPROVEMENTS TO MILITARY FAMILY HOUSING UNITS. – Subject to section 2825 of Title 10, United States Code, and using amounts appropriated pursuant to the authorization of appropriations in Section 2303(a) and available for military family housing functions as specified in the funding table in section 4601, the Secretary of the Air Force may improve existing military family housing units in an amount not to exceed [\$105,258,000] \$230,058,000.

(b) PLANNING AND DESIGN. – Using amounts appropriated pursuant to the authorization of appropriations in Section 2303(a) and available for military family housing functions as specified in the funding table in section 4601, the Secretary of the Air Force may carry out architectural and engineering services and construction design activities with respect to the construction or improvement of military family housing units in an amount not to exceed [\$10,458,000] \$2,730,000.

SEC. 2303. AUTHORIZATION OF APPROPRIATIONS, AIR FORCE

(a) AUTHORIZATION OF APPROPRIATIONS. – Funds are hereby authorized to be appropriated for fiscal years beginning after September 30, 2022, for military construction, land acquisition, and military family housing functions of the Department of the Air Force, as specified in the funding table in section 4601.

(b) LIMITATION ON TOTAL COST OF CONSTRUCTION PROJECTS. – Notwithstanding the cost variations authorized by section 2853 of title 10, United States Code, and any other cost variation authorized by law, the total cost of all projects carried out under section 2301 of this Act may not exceed the total amount authorized to be appropriated under subsection (a), as specified in the funding table in section 4601.



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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

APPROPRIATION LANGUAGE

FAMILY HOUSING CONSTRUCTION, AIR FORCE

For expenses of family housing for the Air Force for construction, including acquisition, replacement, addition, expansion, extension, and alteration, as authorized by law, [\$115,716,000] \$232,788,000 to remain available until September 30, 2027.

FAMILY HOUSING OPERATION AND MAINTENANCE, AIR FORCE

For expenses of family housing for the Air Force for operation and maintenance, including debt payment, leasing, minor construction, principal and interest charges, and insurance premiums, as authorized by law [\$325,445,000] \$355,222,000.

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST  
Construction Improvements**

CONSTRUCTION IMPROVEMENTS

Budget Request (\$ in Thousands)

FY 2023 Budget Request	\$230,058
FY 2022 Budget Request	\$105,258

Purpose and Scope

The Air Force is expected to have approximately 14,910 owned units at the end of FY 2023. The average age of housing units in the Air Force's inventory is close to 30 years.

The Air Force developed the "whole house" revitalization concept for construction improvement projects. Whole house is the combination of required maintenance and repair together with improvements to bring the unit to contemporary standards. In addition, we are looking beyond the house to the entire housing area in our comprehensive plan. Our "whole neighborhood" concept includes the development of supporting housing infrastructure requirements, neighborhood vehicular and pedestrian circulation concepts to consider siting, density, landscaping, parking, playgrounds, recreation areas and utilities, in addition to the housing unit itself. The Air Force has gathered data on the construction improvement projects to detail past projects on these units and any future work being programmed within a three year period. This information is provided as part of this submittal.

Budget Request Summary

Authorization is requested for:

- (1) Appropriation of three MHPI Restructures (\$228,180,000) in FY 2023.
- (2) Includes MHPI equity transfer to fund construction of house for Chief Master Sargent of the Space Force on JB Andrews (\$1,878,000) in FY 2023

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST  
Construction Improvements**

1. COMPONENT Air Force	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
3. INSTALLATION, SITE AND LOCATION Tyndall/Altus/Luke/Sheppard AFB Multiple Locations in FL/OK/AZ/TX			4. PROJECT TITLE AETC 1 MHPI Project Restructure	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711	7. RPSUID/PROJECT NUMBER XLWUPHFY01	8. PROJECT COST (\$000) 150,685	
9. COST ESTIMATES				
ITEM	U/M	QTY	UNIT COST	COST (\$000)
PRIMARY FACILITIES				150,685
Housing Inventory	UN	2,387	63.127	150,685
SUPPORTING FACILITIES				N/A
SUBTOTAL				150,685
CONTINGENCY (5.0%)				N/A
TOTAL CONTRACT COST				N/A
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				N/A
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				N/A
TOTAL REQUEST				150,685
TOTAL REQUEST (ROUNDED)				150,685
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				0
10. Description of Proposed Work: Complete a financial restructure of the AETC Group 1 military housing privatization initiative (MHPI) project by utilizing FY23 AF Budget Authority to modify the terms of the AETC Group 1 MHPI project's Government Direct Loan (GDL) to ensure adequate funding available for sustainment/reinvestment needs.				
11. Requirement: 2,387 UN				
REQUIREMENT: Since closing in 2006, this project is required to provide 2,387 modern and efficient housing units for military members and their dependents stationed at Tyndall, Altus, Luke and Sheppard AFB through the end of the lease term in 2056.				

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST  
Construction Improvements**

1. COMPONENT Air Force	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
3. INSTALLATION, SITE AND LOCATION Tyndall/Altus/Luke/Sheppard AFB Multiple Locations in FL/OK/AZ/TX			4. PROJECT TITLE AETC 1 MHPI Project Restructure	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711	7. RPSUID/PROJECT NUMBER XLWUPHFY01	8. PROJECT COST (\$000) 150,685	
<p>CURRENT SITUATION: The AF currently projects debt service funding shortfalls in late 2023, Tyndall restoration shortfalls of \$70M over next 3 years, sustainment funding shortfalls of \$66M through over the next 10 years and \$226M through the end of the lease term. The sustainment funding shortfalls include funds for HVAC, appliance replacements, exterior maintenance and roofing. Additionally, there are no projected funds available for mid-term reinvestment at the project leading to a \$270M funding shortfall. Limited funding is forecasted to reach the project's Reinvestment Account through the end of the lease term.</p> <p>IMPACT IF NOT PROVIDED: Project housing at Tyndall AFB will not be restored to the approved end-state of 593 units and housing at the broader AETC Group 1 MHPI will continue to further deteriorate impacting the quality of life for 2,387 Airmen stationed at Tyndall, Altus, Luke and Sheppard AFB. Additionally, the ongoing degradation of the units could result in increased life/health/safety issues for project units, the reduction in market rents required to occupy homes and impact the projects ability to fully repay the GDL.</p> <p>ADDITIONAL: None</p>				
<p>12. SUPPLEMENTAL DATA:</p> <p style="margin-left: 20px;">a. Restructure Schedule:</p> <p style="margin-left: 40px;">(1) Project Owner Submit Proposal: Sep 21</p> <p style="margin-left: 40px;">(2) Ongoing Negotiations w/Project Owner: Oct 21 - Dec 21</p> <p style="margin-left: 40px;">(3) Project Owner submit revised proposal: Dec 21 - Jan 22</p> <p style="margin-left: 40px;">(4) OSD/OMB Vector: Feb 22 - Apr 22</p> <p style="margin-left: 40px;">(5) Ongoing Negotiations with Project Owner w/OSD Feedback: Apr 22 - May 22</p> <p style="margin-left: 40px;">(6) Final Proposal from Project Owner: Jun 22</p> <p style="margin-left: 40px;">(7) OSD/OMB Review and Approval: Jul 22 - Oct 22</p> <p style="margin-left: 40px;">(8) Draft Restructure Amendments: Oct 22 - Dec 22</p> <p style="margin-left: 40px;">(9) Restructure Executed: Feb 23</p>				

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST  
Construction Improvements**

<b>1. COMPONENT</b> Air Force	<b>FY 2023 MILITARY CONSTRUCTION PROJECT DATA</b>			<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> Dover AFB Dover/DE			<b>4. PROJECT TITLE</b> Dover MHPI Project Restructure	
<b>5. PROGRAM ELEMENT</b> 88742F	<b>6. CATEGORY CODE</b> 711	<b>7. RPSUID/PROJECT NUMBER</b> PJXTPHFY01	<b>8. PROJECT COST (\$000)</b> 25,492	
<b>9. COST ESTIMATES</b>				
<b>ITEM</b>	<b>U/M</b>	<b>QTY</b>	<b>UNIT COST</b>	<b>COST (\$000)</b>
<b>PRIMARY FACILITIES</b>				25,492
Housing Inventory	Un	980	26.012	25,492
<b>SUPPORTING FACILITIES</b>				N/A
<b>SUBTOTAL</b>				25,492
<b>CONTINGENCY (5.0%)</b>				N/A
<b>TOTAL CONTRACT COST</b>				25,492
<b>SUPERVISION, INSPECTION AND OVERHEAD (5.7%)</b>				N/A
<b>DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)</b>				N/A
<b>TOTAL REQUEST</b>				25,492
<b>TOTAL REQUEST (ROUNDED)</b>				25,492
<b>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</b>				0
<b>10. Description of Proposed Work: Complete a financial restructure of the Dover AFB military housing privatization initiative (MHPI) project by utilizing FY23 AF Budget Authority to modify the terms of the Dover AFB MHPI project's Government Direct Loan (GDL) to ensure adequate funding available for sustainment/reinvestment needs.</b>				
<b>11. Requirement: 980 UN</b>				
<p><b>REQUIREMENT:</b> Since closing in 2005, this project is required to provide 980 modern and efficient housing units for military members and their dependents stationed at Dover AFB through the end of the lease term</p> <p><b>CURRENT SITUATION:</b> The AF currently projects sustainment funding shortfalls of \$18M through the project mid-term, including funds for HVAC, appliance replacements, exterior maintenance, roofing and infrastructure. Additionally,</p>				

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST  
Construction Improvements**

1. COMPONENT Air Force	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION Dover AFB Dover/DE		4. PROJECT TITLE Dover MHPI Project Restructure	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711	7. RPSUID/PROJECT NUMBER PJXTPHFY01	8. PROJECT COST (\$000) 25,492
<p>there is forecasted to be a \$22M shortfall of the projected funds required for mid-term reinvestment at the project. No funding is forecasted to reach the project's Reinvestment Account until near the end of the lease term.</p> <p>IMPACT IF NOT PROVIDED: Project housing at the Dover AFB MHPI will continue to further deteriorate impacting the quality of life for 980 Airmen living on Dover AFB. Additionally, the ongoing degradation of the units could result in increased life/health/safety issues at project units and impact the projects ability to fully repay the GDL.</p> <p>ADDITIONAL: None</p>			
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Restructure Schedule:</p> <ul style="list-style-type: none"> <li>(1) Project Owner Submit Revised Proposal: May 21 (complete)</li> <li>(2) DAF evaluate proposal/draft Scoring Package: Aug 21</li> <li>(3) OSD/OMB Vector: Aug 21 - Dec 21</li> <li>(4) Ongoing Negotiations with Project Owner w/OSD Feedback: Dec 21 - Jan 22</li> <li>(5) Final Proposal from Project Owner: Jan 22 - Feb 22</li> <li>(6) Draft Restructure Approval Package &amp; Submit to OSD/OMB: Feb 22 - Mar 22</li> <li>(7) OSD/OMB Review and Approval: Mar 22 - Aug 22</li> <li>(8) Draft Restructure Amendments: Sep 22 - Oct 22</li> <li>(9) Restructure Executed: Nov 22</li> </ul>			



**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST  
Construction Improvements**

<b>1. COMPONENT</b> Air Force	<b>FY 2023 MILITARY CONSTRUCTION PROJECT DATA</b>			<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> Scott AFB Scott AFB/IL			<b>4. PROJECT TITLE</b> Scott MHPI Project Restructure	
<b>5. PROGRAM ELEMENT</b> 88742F	<b>6. CATEGORY CODE</b> 711	<b>7. RPSUID/PROJECT NUMBER</b> VDYDPHFY01	<b>8. PROJECT COST (\$000)</b> 52,003	
<b>9. COST ESTIMATES</b>				
<b>ITEM</b>	<b>U/M</b>	<b>QTY</b>	<b>UNIT COST</b>	<b>COST (\$000)</b>
<b>PRIMARY FACILITIES</b>				52,003
Housing Inventory	UN	1,593	32.645	52,003
<b>SUPPORTING FACILITIES</b>				N/A
<b>SUBTOTAL</b>				52,003
<b>CONTINGENCY (5.0%)</b>				N/A
<b>TOTAL CONTRACT COST</b>				52,003
<b>SUPERVISION, INSPECTION AND OVERHEAD (5.7%)</b>				N/A
<b>DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)</b>				N/A
<b>TOTAL REQUEST</b>				52,003
<b>TOTAL REQUEST (ROUNDED)</b>				52,003
<b>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</b>				0
<b>10. Description of Proposed Work: Complete a financial restructure of the Scott AFB military housing privatization initiative (MHPI) project by utilizing FY23 AF Budget Authority to modify the terms of the Scott AFB MHPI project's Government Direct Loan (GDL) to ensure adequate funding available for sustainment/reinvestment needs.</b>				
<b>11. Requirement: 1,593 UN</b>				
REQUIREMENT: Since closing in 2006, this project is required to provide 1,593 modern and efficient housing units for military members and their dependents stationed at Scott AFB through the end of the lease term in 2056.				

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST  
Construction Improvements**

1. COMPONENT Air Force	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
3. INSTALLATION, SITE AND LOCATION Scott AFB Scott AFB/IL			4. PROJECT TITLE Scott MHPI Project Restructure	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711	7. RPSUID/PROJECT NUMBER VDYDPHFY01	8. PROJECT COST (\$000) 52,003	
<p>CURRENT SITUATION: The AF currently projects sustainment funding shortfalls of \$58M through the project mid-term and \$155M+ by the end of the lease term in 2056. The sustainment funding shortfalls include funds for HVAC, appliance replacements, exterior maintenance, roofing and infrastructure. Additionally, there are no projected funds available for mid-term reinvestment at the project (an estimated \$108M shortfall). No funding is forecasted to reach the project's Reinvestment Account through the end of the lease term.</p> <p>IMPACT IF NOT PROVIDED: Project housing at the Scott AFB MHPI will continue to further deteriorate impacting the quality of life for 1,593 Airmen living on Scott AFB. Additionally, the ongoing degradation of the units could result in increased life/health/safety issues at project units and impact the projects ability to fully repay the GDL.</p> <p>ADDITIONAL: None</p>				
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Restructure Schedule:</p> <ul style="list-style-type: none"> <li>(1) Project Owner Submit Revised Proposal: May 21 (complete)</li> <li>(2) OSD/OMB Vector: Aug 21 - Dec 21</li> <li>(3) Ongoing Negotiations with Project Owner w/OSD Feedback: Dec 21 - Jan 22</li> <li>(4) Final Proposal from Project Owner: Jan 22 - Feb 22</li> <li>(5) Draft Restructure Approval Package &amp; Submit to OSD/OMB: Feb 22 - Mar 22</li> <li>(6) OSD/OMB Review and Approval: Mar 22 - Aug 22</li> <li>(7) Draft Restructure Amendments/Funds Transfer: Jul 22 - Oct 22</li> <li>(8) Restructure Executed: Nov 22</li> </ul>				

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST  
Construction Improvements**

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
3. INSTALLATION, SITE AND LOCATION Joint Base Andrews/ Maryland		4. PROJECT TITLE MHPI Equity Contribution Construct Chief Master Sergeant of Space Force House		
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 713	7. RPSUID/PROJECT NUMBER AJFXPHFY01	8. PROJECT COST (\$000) 1,878	
9. COST ESTIMATES				
ITEM	U/M	QTY	UNIT COST	COST (\$000)
Hard Costs				1,369
Construction	UN	1		(1,075)
GC Contingency				(045)
Builder's Risk Insurance				(012)
GC Insurance				(066)
General Conditions				(160)
P&P Bond				(011)
SOFT COSTS				428
DEVELOPMENT FEES				081
SUBTOTAL				1,878
CONTINGENCY (5.0%)				N/A
TOTAL CONTRACT COST				1,878
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				N/A
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				N/A
TOTAL REQUEST				1,878
TOTAL REQUEST (ROUNDED)				1,878
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				0
10. Description of Proposed Construction: Equity contribution for MHPI Construction of a new 3,500SF home for the Chief Master Sergeant of the Space Force. This is a Special Command Position residence. All design and construction will be accomplished in accordance with the MHPI closing document and appropriate state/local building Codes and Unified Facility Codes.				
11. Requirement: 1 UN      Adequate: NA      Substandard: NA				
PROJECT: AJFXPHFY01 MHPI Equity Contribution Construct Chief Master Sergeant of the Space Force House				
CURRENT SITUATION: A home meeting or exceeding the housing standards for the referenced grade/position is not available, and it is not a viable option to renovate an existing home in the base inventory to house the chief.				

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST  
Construction Improvements**

1. COMPONENT AIR FORCE	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION Joint Base Andrews/ Maryland		4. PROJECT TITLE MHPI Equity Contribution Construct Chief Master Sergeant of Space Force House	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 713	7. RPSUID/PROJECT NUMBER AJFXPHFY01	8. PROJECT COST (\$000) 1,878
<p>IMPACT IF NOT PROVIDED: An adequate house will not be available for the Space Force Chief Master Sergeant.</p> <p>ADDITIONAL: None</p>			
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Project modification/design</p> <ul style="list-style-type: none"> <li>(1) Project Owner Submit Proposal/Design: Aug 21 (complete)</li> <li>(2) AFCEC Review Proposal/Design/provide comments: Sep 21 - Oct 21</li> <li>(3) Project Owner Submit Revised Proposal/Design: Oct 21 - Nov 21</li> <li>(4) Draft Restructure Approval Package &amp; Submit to OSD/OMB: Dec 21 - Jan 22</li> <li>(5) OSD/OMB Review and Approval: Feb 22 - Jun 22</li> <li>(6) Draft restructure amendments: Jul 22 - Aug 22</li> <li>(7) Congressional notifications/funds transfer: Aug 22 - Sep 22</li> <li>(8) Restructure executed/start construction: Oct 22</li> </ul>			

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

PLANNING AND DESIGN

Budget Request (\$ in Thousands)

FY 2023 Budget Request	\$2,730
FY 2022 Budget Request	\$10,458

Purpose and Scope

This program provides for preliminary studies to develop additional family housing facilities, on time multi-phase design, and housing community profile developments; studies for site adaptation and determination of type and design of units; and working drawings, specifications, estimates, project planning reports and final design drawings of facility housing construction projects. This includes the use of architectural and engineering services in connection with any family housing new construction or construction improvement program.

Budget Request Summary

Authorization is requested for:

- (1) Planning and design for future year housing programs;
- (2) FY 2023 Authorization and Appropriation of \$2,730,000 to fund this effort as outlined in the following exhibit:

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

**DD FORM 1391 – Family Housing Planning and Design**

1. COMPONENT AIR FORCE	<b>FY 2023 MILITARY CONSTRUCTION PROJECT DATA</b>			2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES			4. PROJECT TITLE FAMILY HOUSING PLANNING AND DESIGN	
5. PROGRAM ELEMENT  88742	6. CATEGORY CODE  711-000	7. PROJECT NUMBER PAYZ714FNA	8. PROJECT COST (\$000)  2,730	
9. COST ESTIMATE				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
FAMILY HOUSING PLANNING AND DESIGN	LS			2,730
SUBTOTAL				2,730
TOTAL CONTRACT COST				2,730
TOTAL REQUEST				2,730
<p>10. <u>DESCRIPTION OF PROPOSED CONSTRUCTION</u>: Architect-engineer services, survey, fees, etc., in connection with advance planning and design of family housing dwelling units and properties included in or proposed for the Air Force Family Housing Construction Account.</p> <p>11. <u>PROJECT</u>: This request is for an authorization and appropriation of \$2.730 million to provide planning and design costs in connection with family housing new construction or construction improvements programs.</p> <p><u>REQUIREMENT</u>: The funds requested are necessary to procure architect-engineer services to make site and utility investigations; one time multi-phase design, and housing community profiles (HCP) developments; and for the preparation of design and specifications of advance plans for future year family housing programs in connection with any family housing new construction or construction improvements programs.</p>				

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

Operations, Utilities and Maintenance Summary  
(Excludes Leasing and Privatization)

Budget Request (\$ in Thousands)

FY 2023 Budget Request	\$313,823
FY 2022 Budget Request	\$292,650

Purpose and Scope

Provides operations and maintenance resources to fund property management, utilities, and maintenance of Air Force owned units. The Air Force requests essential resources to provide military families with housing either in the private market through assistance from a housing office, or by providing government housing. The Air Force's Military Family Housing Operation and Maintenance program emphasizes the following goals:

\* Identify suitable, affordable housing for military members. Where shortages exist, identify alternative solutions, to include privatization, new construction or leased housing.

\* Reduce utility consumption to increase energy efficiency and conservation.

\* Provide government appliances and furniture as required.

\* Invest wisely in maintenance and repairs to sustain the existing adequate housing inventory worldwide. The top priorities are life, safety, and health issues and divestiture of surplus housing.

a. Operations. This portion of the program provides for operating expenses in the following sub-accounts:

(1) Management. Includes installation-level housing management office operations. It supports the housing referral and relocation program to assist military families in locating suitable housing and implements the Fair Housing Act. Management efforts at privatized installations include duties that are inherently governmental such as asset management, housing support services, and fiscal oversight. It supports the AF Family Housing Master Plan (FHMP) planning efforts.

(2) Services. Includes basic support services comprising refuse collection and disposal; fire and police protection; custodial services; entomology and pest control; and snow removal and street cleaning. Privatized units do not receive funding from this account.

(3) Furnishings. Includes household appliances (primarily stoves and refrigerators) and furniture (in limited circumstances and mainly in overseas locations). It includes costs associated with procurement, management, and repairs of furnishings and appliance inventories.

(4) Miscellaneous. Includes payments to other Federal agencies or foreign governments (i.e., United States Coast Guard and United Kingdom) to operate housing units occupied by military personnel.

b. Utilities. Includes all purchased and base-produced heat, electricity, water, sewer, and gas commodities serving family housing. Residents purchase their own telephone, internet and cable TV service. Privatized housing units do not receive funding from this account.

c. Maintenance. Privatized housing units do not receive funding from this account.

Provides the following:

(1) Maintenance/Repair of Dwellings. Includes service calls, routine maintenance and repairs, and replacement of deteriorated facility components. Housing maintenance contracts are included in these costs.



**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

(2) Exterior Utilities. Includes maintenance and repair of water, sewer, electrical, and gas lines and other utility distribution, collection, or service systems assigned to or supporting family housing areas.

(3) Other Real Property. Includes maintenance of grounds, common areas, roads, parking areas, and other property for the exclusive use of family housing occupants not included above.

(4) Alterations and Additions. Includes minor alterations to housing units or housing support facilities. Whole-house improvements with complex scopes are included in the construction program.

Operation and Maintenance FY 2023 Budget Request Summary - Highlights

The requested amount in FY 2023 is \$313,823,000. This amount, together with estimated reimbursements of \$2,500,000 will fund the FY 2023 Operation and Maintenance program of \$316,323,000.

A summary of the budget request for FY 2023 is as follows (\$ in thousands):

<u>Operations Request</u>	<u>Utility Request</u>	<u>Maintenance Request</u>	<u>Total Direct Request</u>	<u>Reimbursement</u>	<u>Total Program</u>
\$117,231	\$46,217	\$150,375	\$313,823	\$2,500	\$316,323

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

Inventory and Funding Summary (FH-2)

<b>USAF FY 2023 PB</b>	<b>Fiscal Year: 2023</b>
<b>Family Housing Operations and Maintenance, Summary</b>	<b>Command: USAF</b>
<b>Excludes Leased Units and Costs</b>	<b>Exhibit: FH-2</b>
<b>Worldwide Summary</b>	

<b>Inventory Data (Units)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
Units in Being Beginning of Year	15,260	15,273	15,174
Units in Being at End of Year	15,273	15,174	14,910
<b>Average Inventory for Year</b>	<b>15,267</b>	<b>15,224</b>	<b>15,042</b>
Historic Units	101	101	92
<b>Units Requiring FHO&amp;M Funding</b>			
a. Contiguous US	111	102	92
b. U.S. Overseas	0	0	0
c. Foreign	15,149	15,171	15,082
<b>d. Worldwide</b>	<b>15,260</b>	<b>15,273</b>	<b>15,174</b>

<b>Funding Requirements (\$000)</b>	<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023</b>	
	<b>Total Cost (\$000)</b>	<b>Unit Cost (\$)</b>	<b>Total Cost (\$000)</b>	<b>Unit Cost (\$)</b>	<b>Total Cost (\$000)</b>	<b>Unit Cost (\$)</b>
<b>OPERATIONS (DIRECT)</b>						
Management	66,477	4,354	70,062	4,602	77,042	5,122
Services	10,761	705	8,124	534	10,570	703
Furnishings	25,584	1,676	26,842	1,763	27,379	1,820
Miscellaneous	1,337	88	2,200	145	2,240	149
<b>Sub-Total Direct Operations</b>	<b>104,159</b>	<b>6,823</b>	<b>107,228</b>	<b>7,044</b>	<b>117,231</b>	<b>7,794</b>
Anticipated Reimbursements	735	48	735	48	322	21
<b>Gross Obligations, Operations</b>	<b>104,894</b>	<b>6,871</b>	<b>107,963</b>	<b>7,092</b>	<b>117,553</b>	<b>7,815</b>
<b>UTILITIES (DIRECT)</b>						
Direct Utilities	38,253	2,506	43,668	2,868	46,217	3,073
Utilities Anticipated Reimbursements	1,477	97	1,477	97	646	43
<b>Gross Obligations, Utilities</b>	<b>39,730</b>	<b>2,602</b>	<b>45,145</b>	<b>2,965</b>	<b>46,863</b>	<b>3,115</b>
<b>MAINTENANCE (DIRECT)</b>						
M&R Dwelling	141,394	9,262	111,389	7,317	129,322	8,597
M&R Ext. Utilities	8,221	538	16,755	1,101	7,519	500
M&R Other Real Property	13,153	862	11,655	766	12,030	800
Alter & Add	1,644	108	1,955	128	1,504	100
<b>Sub-Total Direct Maintenance</b>	<b>164,412</b>	<b>10,769</b>	<b>141,754</b>	<b>9,312</b>	<b>150,375</b>	<b>9,997</b>
Anticipated Reimbursements	3,503	229	3,503	230	1,532	102
<b>Gross Obligations, Maintenance</b>	<b>167,915</b>	<b>10,999</b>	<b>145,257</b>	<b>9,542</b>	<b>151,907</b>	<b>10,099</b>
<b>GRAND TOTAL, FHO&amp;M - Direct</b>	<b>306,824</b>	<b>20,098</b>	<b>292,650</b>	<b>19,224</b>	<b>313,823</b>	<b>20,863</b>
<b>Anticipated Reimbursements</b>	<b>5,715</b>	<b>374</b>	<b>5,715</b>	<b>375</b>	<b>2,500</b>	<b>166</b>
<b>GRAND TOTAL, FHO&amp;M - TOA</b>	<b>312,539</b>	<b>20,472</b>	<b>298,365</b>	<b>19,599</b>	<b>316,323</b>	<b>21,029</b>

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

<b>USAF FY 2023 PB</b>	<b>Fiscal Year: 2023</b>
<b>Family Housing Operation and Maintenance, Summary</b>	<b>Command: USAF</b>
<b>Excludes Leased Units and Costs</b>	<b>Exhibit: FH-2</b>
<b>Contiguous US</b>	

<u>Inventory Data (Units)</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>
Units in Being Beginning of Year	111	102	92
Units in Being at End of Year	102	92	92
<b>Average Inventory for Year</b>	<b>107</b>	<b>97</b>	<b>92</b>
Historic Units	101	101	92

<u>Funding Requirements (\$000)</u>	<u>FY 2021</u>		<u>FY 2022</u>		<u>FY 2023</u>	
	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>
<b>OPERATIONS (DIRECT)</b>						
Management	43,333	N/A	50,212	N/A	50,078	N/A
Services	108	N/A	58	N/A	106	N/A
Furnishings	512	N/A	1,089	N/A	548	N/A
Miscellaneous	388	N/A	481	N/A	650	N/A
<b>Sub-Total Direct Operations</b>	<b>44,341</b>	<b>N/A</b>	<b>51,840</b>	<b>N/A</b>	<b>51,382</b>	<b>N/A</b>
Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
<b>Gross Obligations, Operations</b>	<b>44,341</b>	<b>N/A</b>	<b>51,840</b>	<b>N/A</b>	<b>51,382</b>	<b>N/A</b>
<b>UTILITIES (DIRECT)</b>						
Direct Utilities	350	N/A	348	N/A	352	N/A
Utilities Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
<b>Gross Obligations, Utilities</b>	<b>350</b>	<b>N/A</b>	<b>348</b>	<b>N/A</b>	<b>352</b>	<b>N/A</b>
<b>MAINTENANCE (DIRECT)</b>						
M&R Dwelling	2,828	N/A	776	N/A	2,586	N/A
M&R Ext. Utilities	0	N/A	0	N/A	0	N/A
M&R Other Real Property	789	N/A	0	N/A	722	N/A
Alter & Add	99	N/A	0	N/A	90	N/A
<b>Sub-Total Direct Maintenance</b>	<b>3,716</b>	<b>N/A</b>	<b>776</b>	<b>N/A</b>	<b>3,398</b>	<b>N/A</b>
Maintenance Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
<b>Gross Obligations, Maintenance</b>	<b>3,716</b>	<b>N/A</b>	<b>776</b>	<b>N/A</b>	<b>3,398</b>	<b>N/A</b>
<b>GRAND TOTAL, FHO&amp;M - Direct</b>	<b>48,407</b>	<b>N/A</b>	<b>52,964</b>	<b>N/A</b>	<b>55,132</b>	<b>N/A</b>
<b>Anticipated Reimbursements</b>	<b>0</b>	<b>N/A</b>	<b>0</b>	<b>N/A</b>	<b>0</b>	<b>N/A</b>
<b>GRAND TOTAL, FHO&amp;M - TOA</b>	<b>48,407</b>	<b>N/A</b>	<b>52,964</b>	<b>N/A</b>	<b>55,132</b>	<b>N/A</b>

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

<b>USAF FY 2023 PB</b>	<b>Fiscal Year: 2023</b>
<b>Family Housing Operation and Maintenance, Summary</b>	<b>Command: USAF</b>
<b>Excludes Leased Units and Costs</b>	<b>Exhibit: FH-2</b>
<b>US Overseas</b>	

<u>Inventory Data (Units)</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>
Units in Being Beginning of Year	0	0	0
Units in Being at End of Year	0	0	0
<b>Average Inventory for Year</b>	<b>0</b>	<b>0</b>	<b>0</b>
Historic Units	0	0	0

	<u>FY 2021</u>		<u>FY 2022</u>		<u>FY 2023</u>	
	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>
<b>OPERATIONS (DIRECT)</b>						
Management	1,452	N/A	1,745	N/A	1,540	N/A
Services	0	N/A	0	N/A	0	N/A
Furnishings	768	N/A	949	N/A	821	N/A
Miscellaneous	0	N/A	0	N/A	0	N/A
<b>Sub-Total Direct Operations</b>	<b>2,220</b>	<b>N/A</b>	<b>2,694</b>	<b>N/A</b>	<b>2,361</b>	<b>N/A</b>
Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
<b>Gross Obligations, Operations</b>	<b>2,220</b>	<b>N/A</b>	<b>2,694</b>	<b>N/A</b>	<b>2,361</b>	<b>N/A</b>
<b>UTILITIES (DIRECT)</b>						
Direct Utilities	0	N/A	0	N/A	0	N/A
Utilities Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
<b>Gross Obligations, Utilities</b>	<b>0</b>	<b>N/A</b>	<b>0</b>	<b>N/A</b>	<b>0</b>	<b>N/A</b>
<b>MAINTENANCE (DIRECT)</b>						
M&R Dwelling	0	N/A	0	N/A	0	N/A
M&R Ext. Utilities	0	N/A	0	N/A	0	N/A
M&R Other Real Property	0	N/A	0	N/A	0	N/A
Alter & Add	0	N/A	0	N/A	0	N/A
<b>Sub-Total Direct Maintenance</b>	<b>0</b>	<b>N/A</b>	<b>0</b>	<b>N/A</b>	<b>0</b>	<b>N/A</b>
Maintenance Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
<b>Gross Obligations, Maintenance</b>	<b>0</b>	<b>N/A</b>	<b>0</b>	<b>N/A</b>	<b>0</b>	<b>N/A</b>
<b>GRAND TOTAL, FHO&amp;M - Direct</b>	<b>2,220</b>	<b>N/A</b>	<b>2,694</b>	<b>N/A</b>	<b>2,361</b>	<b>N/A</b>
<b>Anticipated Reimbursements</b>	<b>0</b>	<b>N/A</b>	<b>0</b>	<b>N/A</b>	<b>0</b>	<b>N/A</b>
<b>GRAND TOTAL, FHO&amp;M - TOA</b>	<b>2,220</b>	<b>N/A</b>	<b>2,694</b>	<b>N/A</b>	<b>2,361</b>	<b>N/A</b>

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

USAF FY 2023 PB	Fiscal Year: 2023
Family Housing Operation and Maintenance, Summary	Command: USAF
Excluded Leased Units and Costs	Exhibit: FH-2
Foreign	

<u>Inventory Data (Units)</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>
Units in Being Beginning of Year	15,149	15,171	15,082
Units in Being at End of Year	15,171	15,082	14,818
<b>Average Inventory for Year</b>	<b>15,160</b>	<b>15,127</b>	<b>14,950</b>
Historic Units	0	0	0

	<u>FY 2021</u>		<u>FY 2022</u>		<u>FY 2023</u>	
	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>
<b>OPERATIONS (DIRECT)</b>						
Management	21,692	1,431	18,105	1,197	25,424	1,701
Services	10,653	703	8,066	533	10,464	700
Furnishings	24,304	1,603	24,804	1,640	26,010	1,740
Miscellaneous	949	63	1,719	114	1,590	106
<b>Sub-Total Direct Operations</b>	<b>57,598</b>	<b>3,799</b>	<b>52,694</b>	<b>3,484</b>	<b>63,488</b>	<b>4,247</b>
Anticipated Reimbursements	735	48	735	49	322	22
<b>Gross Obligations, Operations</b>	<b>58,333</b>	<b>3,848</b>	<b>53,429</b>	<b>3,532</b>	<b>63,810</b>	<b>4,268</b>
<b>UTILITIES (DIRECT)</b>						
Direct Utilities	37,903	2,500	43,320	2,864	45,865	3,068
Utilities Anticipated Reimbursements	1,477	97	1,477	98	646	43
<b>Gross Obligations, Utilities</b>	<b>39,380</b>	<b>2,598</b>	<b>44,797</b>	<b>2,961</b>	<b>46,511</b>	<b>3,111</b>
<b>MAINTENANCE (DIRECT)</b>						
M&R Dwelling	138,566	9,140	110,613	7,313	126,736	8,477
M&R Ext. Utilities	8,221	542	16,755	1,108	7,519	503
M&R Other Real Property	12,364	816	11,655	771	11,308	756
Alter & Add	1,545	102	1,955	129	1,414	95
<b>Sub-Total Direct Maintenance</b>	<b>160,696</b>	<b>10,600</b>	<b>140,978</b>	<b>9,320</b>	<b>146,977</b>	<b>9,831</b>
Maintenance Anticipated Reimbursements	3,503	231	3,503	232	1,532	102
<b>Gross Obligations, Maintenance</b>	<b>164,199</b>	<b>10,831</b>	<b>144,481</b>	<b>9,552</b>	<b>148,509</b>	<b>9,934</b>
<b>GRAND TOTAL, FHO&amp;M - Direct</b>	<b>256,197</b>	<b>16,900</b>	<b>236,992</b>	<b>15,667</b>	<b>256,330</b>	<b>17,146</b>
Anticipated Reimbursements	5,715	377	5,715	378	2,500	167
<b>GRAND TOTAL, FHO&amp;M - TOA</b>	<b>261,912</b>	<b>17,277</b>	<b>242,707</b>	<b>16,045</b>	<b>258,830</b>	<b>17,313</b>

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

Summary Historic Housing

<b>Summary of Historic Housing Detail</b>			
	<u>2021</u>	<u>2022</u>	<u>2023</u>
<b>1. Historic Housing Costs, Non-GOQ Data</b>			
a. Number of Non-GOQ units on NHRP (Inventory)	78	78	69
b. Improvement Costs (\$000)	0	0	0
c. Maintenance and Repair Costs (\$000)	1,459	1,488	1,400
<b>d. Total Historic Maintenance, Repair, Improvements (\$000)</b>	<b>1,459</b>	<b>1,488</b>	<b>1,400</b>
<b>e. Average Cost Per Unit (\$000)</b>	<b>19</b>	<b>19</b>	<b>20</b>
<b>2. Historic Housing Costs, GOQ Data</b>			
a. Number of GOQ units on NHRP (Inventory)	23	23	23
b. Improvement Costs (\$000)	0		
c. Maintenance and Repair Costs (\$000)	341	348	351
<b>d. Total Historic Maintenance, Repair, Improvements (\$000)</b>	<b>341</b>	<b>348</b>	<b>351</b>
<b>e. Average Cost Per Unit (\$000)</b>	<b>15</b>	<b>15</b>	<b>15</b>
<b>3. Total Historic Inventory &amp; Costs (Non-GOQ &amp; GOQ)</b>			
a. Number of Non-GOQ and GOQ units on NHRP (Inventory)	101	101	92
b. Improvement Costs (\$000)	0	0	0
c. Maintenance and Repair Costs (\$000)	1,800	1,836	1,751
<b>d. Total Historic Maintenance, Repair, Improvements (\$000)</b>	<b>1,800</b>	<b>1,836</b>	<b>1,751</b>
<b>e. Average Cost Per Unit (\$000)</b>	<b>18</b>	<b>18</b>	<b>19</b>

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

Family Housing Operation and Maintenance Reprogramming Actions

(\$ in Thousands) as of 30 Aug 2021

	<u>FY 2021 Appropriation</u>	<u>Funds Reprogrammed</u>	<u>Percent Reprogrammed</u>	<u>FY 2021 End of Year</u>
Utilities	43,173	(4,910)	(11.37%)	38,263
<b>Operations</b>				
Management	64,732	(8,926)	(13.79%)	55,806
Services	7,968	2,944	36.95%	10,912
Furnishings	25,805	0	0.00%	25,805
Miscellaneous	2,184	(834)	(38.19%)	1,350
Leasing	9,318	(3,417)	(36.67%)	5,901
Maintenance	140,666	21,143	15.03%	161,809
Debt	0	0	0.00%	0
Privatization	23,175	(6,000)	(25.89%)	17,175
Foreign Currency	0	0	0.00%	0
<b>Total</b>	<b>317,021</b>	<b>0</b>	<b>0.00%</b>	<b>317,021</b>

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

MANAGEMENT EXHIBIT OP-5

Management - The Management account supports housing operations to include management office personnel; supplies, equipment and custodial services; community liaison and housing support services; and housing information technology software and support. It supports studies such as the housing requirements and market analyses, preliminary studies, and engineering construction plans. It includes concept development, acquisition, and portfolio management supporting housing privatization.

	<b><u>(\$ in Thousands)</u></b>
1. FY 2022 President's Budget Request:	\$70,062
2. FY 2022 Appropriated Amount:	\$70,062
3. FY 2022 Current Estimate:	\$70,062
4. Price Growth:	\$1,401
a. General Inflation	2.00%      \$1,401
5. Program Increase:	\$5,579
6. Program Decrease:	\$0
7. FY 2023 Budget Request:	\$77,042

**Notes:**

Analysis of changes in Management:

The FY23 program increase sustains the FY20 Congressional funding for additional manpower needed to enhance privatization oversight. The additional manpower positions are aligned to Air Force Installation Military Housing offices, Air Force Civil Engineer Center, and Headquarters Air Force to support inherently governmental activities of privatized housing oversight, asset management, housing support services, and fiscal oversight. A total of 218 positions (GS 7-15) were added in FY21 with 100% fill rate. The increase also includes funds to support the FY21 NDAA mandated housing inspections for all government owned MFH.



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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

SERVICES EXHIBIT OP-5

Services Provides basic municipal-type support services such as refuse collection and disposal; fire and police protection; entomology and pest control; snow removal; street cleaning, and custodial services for government-owned family housing units. Since private developers are responsible for municipal services, installations with privatized housing have no requirements for funding. Services at remaining government-owned housing units are based on historical obligations.

	<u>(\$ in Thousands)</u>
1. FY 2022 President's Budget Request:	\$8,124
2. FY 2022 Appropriated Amount:	\$8,124
3. FY 2022 Current Estimate:	\$8,124
4. Price Growth:	\$162
a. General Inflation	2.00%      \$162
5. Program Increase:	\$2,284
6. Program Decrease:	\$0
7. FY 2023 Budget Request:	\$10,570

**Notes:**

Analysis of changes in Services:

The FY 2023 requirement is based on historical expenditures allowing for adjustments in service contracts at OCONUS locations, and for standard inflation rate of 2%. The program increase is due to rising refuse collection and disposal costs at OCONUS bases.

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

FURNISHINGS EXHIBIT OP-5

Furnishings The Air Force provides furnishings support to members in overseas locations and for general officers residing in government-provided and privatized housing. This Furnishing account includes furnishing office personnel, procurement for initial issue and replacement of household equipment, domestic appliances (primarily stoves and refrigerators) and for furniture in limited circumstances. It funds the control, moving, and handling of furnishings inventories, and the maintenance and repair of such items. Privatized housing units do not receive funding with the exception for residents of general officers' quarters.

Loaner furniture is provided to military families overseas so they may occupy permanent quarters prior to the arrival of their personally-owned furniture.

“Loaner kits” consisting of beds, sofas, dining tables, etc., allows members to set up their household faster while reducing the cost of temporary quarters. In addition, there are some furnishings normally built into CONUS houses that are often limited or nonexistent in foreign private rentals, such as wardrobes (clothes closets), kitchen cabinets, sideboards and appliances. These items are provided to families as required.

The furnishings account funds essential furnishings at levels consistent with the needs of the Air Force.

	<u>(\$ in Thousands)</u>
1. FY 2022 President's Budget Request:	\$26,842
2. FY 2022 Appropriated Amount:	\$26,842
3. FY 2022 Current Estimate:	\$26,842
4. Price Growth:	\$537
a. General Inflation	2.00%      \$537
5. Program Increase:	\$0
6. Program Decrease:	\$0
7. FY 2023 Budget Request:	\$27,379

**Notes:**

Analysis of changes in Furnishings:

The FY2023 requirement is based on historical expenditures and for a standard inflation rate of 2%. The AF has a large OCONUS requirement for families and assists with helping families to occupy permanent quarters faster. This helps to avoid higher costs in other accounts such as military allowances and other support appropriations.

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

MISCELLANEOUS EXHIBIT OP-5

Miscellaneous Includes payments to other Federal agencies or foreign governments (i.e. United States Coast Guard and United Kingdom) to operate housing units occupied by Air Force personnel. For locations that are U.S. government owned or controlled, funding is based on historical obligations. No funding is provided in this category for installations with privatized housing.

	<u>(\$ in Thousands)</u>
1. FY 2022 President's Budget Request:	\$2,200
2. FY 2022 Appropriated Amount:	\$2,200
3. FY 2022 Current Estimate:	\$2,200
4. Price Growth:	\$44
a. General Inflation	2.00%      \$44
5. Program Increase:	\$0
6. Program Decrease:	(\$4)
7. FY 2023 Budget Request:	\$2,240

**Notes:**

Analysis of changes in Miscellaneous:

The FY2023 decrease reflects a stabilization in the program.

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

UTILITIES EXHIBIT OP-5

This program provides for all utilities consumed in government-owned family housing. This program funds electricity, natural gas, fuel oil and other purchased heating, water, sewage and waste systems. Military Family Housing residents and housing management continue to work towards meeting energy reduction goals. However, as the majority of homes become privatized, and utility cost responsibility is shifted to private developers, this becomes less of an overall government concern.

**Utilities Reconciliation Increases Decreases**

	<b><u>(\$ in Thousands)</u></b>
1. FY 2022 President's Budget Request:	\$43,668
2. FY 2022 Appropriated Amount:	\$43,668
3. FY 2022 Current Estimate:	\$43,668
4. Price Growth:	\$873
a. General Inflation	2.00%      \$873
5. Program Increase:	\$1,676
6. Program Decrease:	\$0
<b>7. FY 2023 Budget Request:</b>	<b>\$46,217</b>

**Notes:**

Analysis of changes in Utilities:

The FY2023 increase includes an Air Force adjustment for projected higher fuel delivery costs and program wide increase in utility costs.



**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

Family Housing Summary of Utilities Detail

	2021	2022	2023
<b>Total Cost of Utilities (\$000)</b>	<b>37,616</b>	<b>43,668</b>	<b>46,217</b>
<b>Utility Quantities</b>			
<b>Electricity (KwH)</b>	<b>196,389,268</b>	<b>200,317,054</b>	<b>204,323,395</b>
<b>Heating</b>			
Gas(CF)	559,254,314	570,439,400	581,848,188
Fuel Oil			
Residuals (BBLs)			
Distillates (BBLs)	17,399	17,747	18,102
Purchased Steam (MBTU)	303,246	309,311	315,497
Heat Plants Coal Fired (MBTU)	0	0	0
Heat Plants Other Than Gas, Oil, Coal (MBTU)	0	0	0
Propane (BBLs)	13,116	13,379	13,646
<b>Water (Kgal)</b>	<b>2,388,143</b>	<b>2,435,906</b>	<b>2,484,624</b>
<b>Sewage (Kgal)</b>	<b>2,157,831</b>	<b>2,200,988</b>	<b>2,245,008</b>

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

MAINTENANCE EXHIBIT OP-5

Maintenance provides for sustainment of family housing assets through service calls, change of occupancy rehabilitation, routine maintenance, preventive maintenance, interior and exterior painting, and major repairs. Housing condition assessments conducted for the AF FHMP substantiate that the maintenance and repair funding profile represents a balanced, fiscally constrained program, while ensuring sufficient Real Property Maintenance by Contract (RPMC) funds are available to maintain the existing adequate inventory. MFH maintenance is categorized in two types of service.

The first is routine recurring work such as service calls and repairs necessary to keep a house habitable (e.g. repairing leaking faucets, replacing broken windows, or replacing furnace filters). It includes maintenance performed during change of occupancy, such as painting or carpet replacement.

The second type of service is major maintenance and repair needed to fix or replace major systems and their components that are nearing the end of their useful life. Examples include restoring or replacing structural items including roofs, electrical, plumbing, heating, ventilation and air conditioning, landscaping and complete exterior painting.

No maintenance funds are provided for privatized housing units which are the responsibility of the privatization property owner.

				<u>(\$ in Thousands)</u>
1. FY 2022 President's Budget Request:				\$141,754
2. FY 2022 Appropriated Amount:				\$141,754
3. FY 2022 Current Estimate:				\$141,754
4. Price Growth:				\$2,835
a. General Inflation	2.00%	\$2,835		
5. Program Increase:				\$5,786
6. Program Decrease:				\$0
7. FY 2023 Budget Request:				\$150,375

**Notes:**

Analysis of changes in Maintenance:

The FY2023 program increase provides funding necessary to prevent deterioration of the government-owned housing inventory, routine recurring repair, and to address 138 units with low facility conditions ratings through maintenance and repair projects.

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

MAINTENANCE AND REPAIR NON-GOQ UNITS EXCEED \$20,000 THRESHOLD

This information complies with the House of Representatives, Military Construction Appropriations Bill (Conference Report 106-221) requiring the Services to report major maintenance and repair expenditures projected to exceed \$20,000 per unit. While these projects are shown as line items here, the maintenance budget estimate includes them among overall requirements for the entire inventory. AF Policy is to program projects that exceed \$20K threshold when work cannot await MILCON funding or housing privatization. Work includes actions that keep "good units good", protect life, safety, and health, and ensure facility preservation.

Location	Base	Number of Units	Year Built	High Unit Cost (\$000)	Unit (NSM)	Project (NSM)	Total Cost (\$000)	Significant O&M FY 2017-2021 (\$000)
<b>OVERSEAS</b>								
Germany	Ramstein	6	1953-195	37.0	172	1,852	149.0	0
Repair 6 FGO units in Military Family Housing Ramstein to include sealment of the exterior basement walls, repair and seal wet chimneys to meet code to provide safe and adequate housing.								
Germany	Ramstein	4	1958	37.0	162	1,740	149.0	0
Repair 4 FGO units in Military Family Housing Ramstein to include sealment of the exterior basement walls, repair and seal wet chimneys to meet code to provide safe and adequate housing.								
Germany	Ramstein	8	1953	67.0	161	1,736	343.0	0
Repair 8 FGO units in Military Family Housing Ramstein to include sealment of the exterior basement walls, repair and seal wet chimneys, repair damaged wooden floor to meet code to provide safe and adequate housing								
Germany	Ramstein	8	1953	67.0	161	1,736	343.0	0
Repair 8 FGO units in Military Family Housing Ramstein to include sealment of the exterior basement walls, repair and seal wet chimneys, repair damaged wooden floor to meet code to provide safe and adequate housing								
Germany	Ramstein	8	1953	67.0	161	1,736	343.0	0
Repair 8 FGO units in Military Family Housing Ramstein to include sealment of the exterior basement walls, repair and seal wet chimneys, repair damaged wooden floor to meet code to provide safe and adequate housing								
Germany	Ramstein	8	1953-195	67.0	162	1,740	343.0	0
Repair 8 FGO units in Military Family Housing Ramstein to include sealment of the exterior basement walls, repair and seal wet chimneys, repair damaged wooden floor to meet code to provide safe and adequate housing								
Germany	Spangdahlem	13	2008	465.0	150	1,946	4,225.0	0
Repair water and sewer pipe leakages, deficiencies at kitchens, stairwells, bathrooms, heating and electricity systems at MFH units, Bldgs 6006 (SOQ 4 bedroom (BR)), 6105, 6106, 6107, 6108 (SRE 4 BR), 6111, 6112, 6113, 6114, 6117, 6118, 6119, and 6120 (JRE 3 BR). Work will include but is not limited to the removal / deactivation of the existing domestic water piping, heating system, kitchen and bathrooms throughout the entire facility and replacement with new material. Removal and replacement of sections of the sewer pipe system, including broken drain inlets at various locations (bathroom tub and shower, kitchen sink, etc.) through the facility. The work will also include all necessary demolition, mechanical, masonry, flooring and wall tile replacement, paint and wall paper replacement work, as well as a final cleaning required prior to the re-occupation of the housing units.								
Japan	Yokota	70	1998	388.0	1,218	85,260	37,000.0	0
Project provides whole-house lifecycle repair and modernization for 70 units located at Yokota AB, Tower 3002 (2TA, JNCO). Project includes system upgrades to meet current codes and modern energy efficiency standards. Project will								

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

<b>Location</b>	<b>Base</b>	<b>Number of Units</b>	<b>Year Built</b>	<b>High Unit Cost (\$000)</b>	<b>Unit (NSM)</b>	<b>Project (NSM)</b>	<b>Total Cost (\$000)</b>	<b>Significant O&amp;M FY 2017-2021 (\$000)</b>
<p>provide lifecycle repair by replacement of all interior and exterior finishes and fixtures to include: roof, downspouts and gutters, exterior doors, windows and paint, interior cabinetry and shelving, floor finish, plumbing fixtures; replace shelves; replace metal handrail; replace floor finish; replace cabinets and replace door lock hardware with smart card hardware; landscaping. Mechanical works include replace HVAC and elevator system; replace domestic water distribution, sanitary waste collection and water storage tank. Electrical works include replace interior light fixtures with new energy efficient; replace electrical panel, generator and transformer. Fire and safety works include fire suppression; fire alarm, fire pump, standpipe and mass notification. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria (UFC). Project programmed in accordance with the latest approved Housing Community Profile.</p>								
Japan	Kadena	4	1986	475.0	129	516	1,535.0	0
<p>Project provides whole-house repair of fire damaged building 9331 (JB3-82p3) located at Kadena Air Base, Jennings. Work to include but is not limited to restoration and repair of: Building System – (Electrical Systems, Mechanical Systems, Plumbing Systems, Environmental, Interior Structure, Exterior Structure, Fire and Life Safety and Roof Structure); Lot – (Landscape, Trash Enclosure, Utilities) and Space – (Bathroom, Bedroom, Dining Room, Exterior Storage, Foyer, Hallway, Storage, Kitchen, Laundry Room, Closet, Living Room, Mechanical Room, Patio, Porch and Stairway). In addition, environmental (asbestos/lead) sampling, testing, remediation, archeological test digs and all other related work are programmed into the project to provide contemporary community living standards.</p>								
Japan	Foster	68	2002	479.0	129	13,045	32,870.0	0
<p>Project provides whole-house lifecycle repair for 68 units located at Camp Foster, Okinawa, Japan, Kishaba Tower 26 (TW3-02, JNCO). Project includes system upgrades to meet current codes and modern energy efficiency standards, to include Shell &amp; Core: Building System - Electrical Systems, Exterior Structure, Fire and Life Safety, Mechanical Systems, Plumbing Systems, and Roof Structure; Common Area – Corridors, Garbage Disposal Rooms, Janitors Closets, Mechanical Room, Recreation Rooms, and Women/Men Restrooms; Lot – Utilities and Dwelling unit: Building System - Electrical Systems, Exterior Structure, Fire and Life Safety, Interior Structure, and Plumbing Systems; Space – Balcony, Bathroom, Bedroom, Dining Room, Exterior Storage, Family Room, Foyer, Hallway, Interior Storages, Kitchen, Laundry Room, Closets, and Living Room. In addition, environmental (asbestos/lead) sampling, testing, abatement, and all other related work are programmed into the project to provide to provide contemporary community living standards. Project programmed in accordance with the latest approved Housing Community Profile.</p>								
Japan	Misawa	32	1997	325.0	111	3,547	17,000.0	0
<p>Project provides whole-house life-cycle repair for thirty-two (32), three bedroom, Junior Non-Commissioned Officer (JNCO) homes and common areas: corridors, trash rooms and mechanical rooms/pump house. Project includes system upgrades to meet current codes and modern energy efficiency standards. Project will provide lifecycle repair by replacement of all interior and exterior finishes and fixtures. Project will provide lifecycle replacement, of steam-sourced heat with energy efficient heat pump. Project provides energy management control system (EMCS) for integration with the Misawa AB EMCS system. Project will repair, by replacement, exhaust fans, windows, and doors for maximum energy efficiency. Project includes required replacement of transformer (near B215), additional storage, parking for residents/guests and landscaping. Project does include handicap accessible units. Project will address any fire safety deficiencies. Project will update force protection measures in accordance with current version of the Unified Facilities Criteria (UFC) 4-010-01. Project will abate asbestos, lead-based paint, arsenic gypsum board and other hazardous materials as encountered. Project programmed in accordance with the latest approved Housing Community Profile.</p>								
Japan	Misawa	20	1997-199	429.0	73	1,455	8,580.0	0
<p>Project provides whole-house life-cycle repair for twenty 2bd JNCO homes (5bldg, quadplex). Project includes system upgrades to meet current codes and modern energy efficiency standards. Project will provide lifecycle repair by replacement of all interior and exterior finishes and fixtures. Project will provide lifecycle replacement, of steam-sourced heat with energy efficient heat pump. Project provides energy management control system (EMCS) for integration with the Misawa AB EMCS system. Project will repair, by replacement, exhaust fans, windows, and doors</p>								

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<b>Location</b>	<b>Base</b>	<b>Number of Units</b>	<b>Year Built</b>	<b>High Unit Cost (\$000)</b>	<b>Unit (NSM)</b>	<b>Project (NSM)</b>	<b>Total Cost (\$000)</b>	<b>Significant O&amp;M FY 2017-2021 (\$000)</b>
for maximum energy efficiency. Project will address any fire safety deficiencies. Project will update force protection measures in accordance with current version of the Unified Facilities Criteria (UFC) 4-010-01. Project will abate asbestos, lead-based paint, arsenic gypsum board and other hazardous materials as encountered. Project programmed in accordance with the latest approved Housing Community Profile.								
Japan	Courtney	68	1986	430.0	129	13,045	29,214.0	0
Project provides whole-house lifecycle repair for 68 units located at Camp Courtney, Okinawa, Japan, Tower 4511 (TJ3-86p8p9 B, SNCO). Project includes system upgrades to meet current codes and modern energy efficiency standards, to include Building Shell & Core: Building System - Electrical Systems, Exterior Structure, Fire and Life Safety, Interior Structure, Mechanical Systems, Plumbing Systems and Roof Structure; Common Area - Storage, Corridors, Garbage Disposal Rooms, Janitors Closets, Mechanical Room and Restrooms; Lot - Utilities. Unit: Building System - Electrical Systems, Exterior Structure, Fire and Life Safety, Interior Structure, Mechanical Systems, Plumbing Systems. Space – Balcony, Bathroom, Bedroom, Dining Room, Foyer, Hallway, Interior Storage, Kitchen, Laundry Room and Living Room. In addition, environmental (asbestos/lead) sampling, testing, remediation and all other related work are programmed into the project to provide contemporary community living standards. Project programmed in accordance with the latest approved Housing Community Profile.								
Japan	Misawa	29	1994	616.0	111	2,951	17,875.0	0
Project provides whole-house life-cycle repair to twenty-nine homes. Project includes twelve 3bd SNCO multiplex (3 Bldg, quadplex), four 2bd JNCO multiplex (1 bldg, quad-plex), twelve 3bd JNCO multiplex (3 bldgs, quadplex), and one (single family). Project includes system upgrades to meet current codes and energy efficiency standards. Project will provide lifecycle repair by replacement of all interior and exterior finishes and fixtures. Project will provide lifecycle replacement, of steam-sourced heat with energy efficient heat pump. Project provides energy management control system (EMCS) for integration with the Misawa AB EMCS system. Roof repair to increase energy efficiencies will be completed as required. Project will repair, by replacement, exhaust fans, windows, and doors for maximum energy efficiency. Project will address any fire safety deficiencies. Project will update force protection measures in accordance with current version of the Unified Facilities Criteria (UFC) 4-010-01. Project will abate asbestos, lead-based paint, arsenic gypsum board and other hazardous materials as encountered. Project is programmed in accordance with the latest approved Housing Community Profile.								
Korea	Osan	112	2006	27.4	122	13,610	3,072.0	1,653
Provide all labor, materials and equipment necessary to provide sustainment repairs and study on 112 Military Family Housing (MFH) dwelling units Building 211. This project includes the following principal features: replace the entire fire alarm system and Mass Notification System (MNS) with a new combined Fire Alarm Control Panel (FACP) system that has MNS capabilities; replace the smoke detectors in residential units; replace all existing lightings with LED lightings fixtures; provide an Architectural and Engineering (A&E) service to perform a study of the entire heating, ventilation, and air conditioning (HVAC) system; restore all areas affected by this project. Significant O&M work performed in FY18-FY22 includes replacement of two passenger elevators and one cargo elevator (\$890K), other O&M work (\$763K).								
Korea	Osan	112	2008	25.2	151	16,904	2,822.0	2,958
Provide all labor, materials and equipment necessary to provide sustainment repairs and study on 112 Military Family Housing (MFH) dwelling units Building 1015. This project includes the following principal features: replace the entire fire alarm system and Mass Notification System (MNS) with a new combined Fire Alarm Control Panel (FACP) system that has MNS capabilities; replace the smoke detectors in residential units; replace all existing lightings with LED lightings fixtures; provide an Architectural and Engineering (A&E) service to perform a study of the entire Heating, ventilation, and air conditioning (HVAC) system; restore all areas affected by this project. Significant O&M work performed in FY18-FY22 includes replacement of two passenger elevators and one cargo elevator (\$890K), other O&M work (\$2,068).								
Korea	Osan	104	2008	26.6	155	16,139	2,772.0	2,003

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<b>Location</b>	<b>Base</b>	<b>Number of Units</b>	<b>Year Built</b>	<b>High Unit Cost (\$000)</b>	<b>Unit (NSM)</b>	<b>Project (NSM)</b>	<b>Total Cost (\$000)</b>	<b>Significant O&amp;M FY 2017-2021 (\$000)</b>
Provide all labor, materials and equipment necessary to provide sustainment repairs and study on 104 Military Family Housing (MFH) dwelling units Building 1014. This project includes the following principal features: replace the entire fire alarm system and Mass Notification System (MNS) with a new combined Fire Alarm Control Panel (FACP) system that has MNS capabilities; replace the smoke detectors in residential units; replace all existing lightings with LED lightings fixtures; provide an Architectural and Engineering (A&E) service to perform a study of the entire Heating, ventilation, and air conditioning (HVAC) system; restore all areas affected by this project. Significant O&M work performed in FY18-FY22 includes replacement of two passenger elevators and one cargo elevator (\$890K), other O&M work (\$1,113).								
Korea	Osan	5	2006	50.0	177	228	250.0	3
Provide all labor, materials and equipment necessary to replace leaking roof and repaint exteriors on Senior Officer Quarters (SOQ) building 1078. This project includes the following principal features: replace the roof with a new standing seam metal roof system; replace gutters and downspouts; repaint exteriors; restore all areas affected and disturbed by this project.								
UK	RAF Alconbury	1	1957	483.0	193	193	483.0	0
AEDY21-4001 Renovate, 1325 Delta Lane - MFH, RAFA. 1325 Delta Lane provides bespoke housing for the 501 CSW Commander and his/her family. This project will renovate 1325 Delta Lane, internally and externally, throughout; including garage, associated paved surfaces and groundworks to the rear garden.								

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GENERAL AND FLAG OFFICERS' QUARTERS

Anticipated Operations, Maintenance and Repair Expenditures Exceeding \$35,000 per Unit (FH-5)

<b>Installation</b>	<b>Quarters Address</b>	<b>Year Built</b>	<b>Size NSF</b>	<b>Operations Cost</b>	<b>Maintenance Cost</b>	<b>Total OMR &gt; \$35K Cost</b>	<b>Utility Cost</b>	<b>Leasing Cost</b>	<b>Historic Preservation Cost</b>	<b>Total FH O&amp;M Cost</b>	<b>Significant O&amp;M FY 2017-2021 (\$000)</b>
<b>OVERSEAS</b>											
Camp Foster	Plaza 4210	1956	2,315	\$2.0	\$84.0	\$86.0	\$3.3	\$0.0	\$0.0	\$89.3	\$0.0
This project enables GOQ 4210 to meet current environmental safety standards. Specifically, this project addresses concerns associated with asbestos containing material located underneath the finish floor. The project uses conventional design and construction methods compatible with applicable DoD and AF standards, and provides the management, tools, design, supplies, equipment, transportation, labor, services to abate asbestos containing material, and to replace the unit's carpet with laminated flooring.											
<b>Total GOQ Units</b>				<b>\$2.0</b>	<b>\$84.0</b>	<b>\$86.0</b>	<b>\$3.3</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$89.3</b>	<b>\$0.0</b>



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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
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GENERAL AND FLAG OFFICERS' QUARTERS

Quarters 6,000 Net Square Feet (FH-10)

State/Country	Installation	Quarters ID	Year Built	Size NSF	Total FHO&M Cost (\$000)	Alternative Use	Cost to Convert Unit	If O&M >\$35K Demolish & Rebuild Cost
Colorado	USAF Academy	6950 Otis	1929	11,553	\$35	None	N/A	N/A
Colorado	USAF Academy	6776 Carlton	1931	10,846	\$35	None	N/A	N/A
<b>Total:</b>					<b>\$70</b>		<b>0.00</b>	<b>0</b>

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**Privatized GFOQ Operations, Maintenance and Repair Costs Exceeding \$50,000 (FH-12)**

<u>State/Country</u>	<u>Installation</u>	<u>Quarters ID</u>	<u>Year Built</u>	<u>Size NSF</u>	<u>Operations Cost (Note 1)</u>	<u>Maintenance and Repair Cost (Note 2)</u>	<u>Total FH O&amp;M Cost</u>
Mississippi	Keesler AFB	405 Arnold	2009	4,200	6.1	51.0	57.1
<b>Total</b>					<b>6.1</b>	<b>51.0</b>	<b>57.1</b>

**Notes:**

- (1) Maintenance & Repair includes Capital Repair & Replacement and reinvestment Costs
- (2) This annual report complies with the FY 2009 National Defense Authorization Act (NDAA), amended Section 2805 requirement.
- (3) Cost incurred per unit by the private sector developer/partner/owner for Fiscal Year 2021 (\$ in Thousands).

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
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RECONCILIATION OF INCREASES AND DECREASES

REIMBURSEMENT EXHIBIT OP-5

Includes collections received from rental of Air Force family housing units to foreign nationals, civilians and others. Included in the estimate are the anticipated reimbursements due to members who voluntarily separate that are authorized to live in government quarters for up to six months after separation.

	<u>(\$ in Thousands)</u>
1. FY 2022 President's Budget Request:	\$5,715
2. FY 2022 Appropriated Amount:	\$5,715
3. Supplementals:	\$0
4. Price Growth:	\$0
5. Functional Program Transfers:	\$0
6. Program Increases:	\$0
7. Program Decreases	\$0
8. FY 2022 Current Estimate:	\$5,715
9. Price Growth:	
a. Inflation	2.00% \$114
10. Functional Program Transfer:	\$0
11. Program Increases:	\$0
12. Program Decreases: Adjusted based on historical data	(\$3,329)
<b>13. FY 2023 Budget Request:</b>	<b>\$2,500</b>

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

**Leasing**

**Budget Request (\$ in Thousands)**

FY 2023 Budget Request	\$7,882
FY 2022 Budget Request	\$9,520

**Purpose and Scope**

Leasing provides privately owned housing for assignment as government quarters at both domestic and foreign locations when the local economy and on-base housing cannot satisfy requirements. The leasing program is authorized by 10 United States Code (U.S.C.) §2828 and provides for payment of rental and operation and maintenance costs of privately owned quarters for assignment as government quarters to military families. This program includes funds needed to pay for services such as utilities and refuse collection when these services are not part of the lease agreement. The Air Force (AF) also uses the authorities in 10 U.S.C. §2834 to participate in Department of State (DoS) embassy leased housing pools.

The AF continues to rely on the private sector to meet the majority of housing needs. Where the private sector rental markets and on-base housing cannot meet requirements and cost-effective alternatives do not exist, short and long-term leases are used. The AF must use the leasing program in high-cost areas to obtain adequate housing to meet critical needs and to avoid unacceptably high out-of-pocket costs for the member where government-owned housing is not available.

**Program Summary - Highlights**

Authorization is requested to fund leases and related expenses in FY 2023. The FY 2023 request for family housing leasing points is summarized as follows:

		FY 2021		FY 2022		FY 2023	
		Used	Cost	Used	Cost	Used	Cost
	Lease Pts						
Foreign:	8,988	88	\$5,241	126	\$8,995	100	\$7,357
Domestic:	3,333	3	\$96	15	\$525	15	\$525
<b>Total:</b>	<b>12,321</b>	<b>91</b>	<b>\$5,337</b>	<b>141</b>	<b>\$9,520</b>	<b>115</b>	<b>\$7,882</b>

**Foreign Leasing**

Congress authorized leasing in foreign countries in 10 U.S.C. §2828 as amended, which limits the number of lease points authorized and funds appropriated, and as required, through notifications prior to execution of lease agreements exceeding \$1M annually. The AF strategy is to provide adequate housing for our personnel serving in other countries where military family housing is not available. Foreign leases are primarily provided at Aviano, Italy and Doha, Qatar and other countries to support the direct AF mission.

The AF also provides appropriate funding support to accompanied military members and DoD civilians assigned at the DoS embassies where their housing and related services are provided by the DoS embassies under the authority of 10 U.S.C. §2834. DoS provides leased housing support through the International Cooperative Administrative Support Services (ICASS) program and requires ICASS administrative fees.

**Domestic Leasing**

Congress authorized domestic leasing program in 10 U.S.C. §2828 as amended, which limits the number of units authorized at any one time and specifies the maximum cost limitation.



**DEPARTMENT OF THE AIR FORCE  
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The AF supports independent duty personnel residing in high cost rental areas of which their duty locations are geographically separated and/or outside of commuting distance from the nearest military installations with government-owned or privatized family housing. This support is provided since adequate housing is not available within member's housing allowances.

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

LEASING EXHIBIT OP-5

			<u>(\$ in Thousands)</u>
1. FY 2022 President's Budget Request:			\$9,520
2. FY 2022 Appropriated Amount:			\$9,520
3. FY 2022 Current Estimate:			\$9,520
4. Price Growth:			\$190
a. General Inflation	2.00%	\$190	
5. Program Increase:			\$0
6. Program Decrease:			(\$1,828)
<b>7. FY 2023 Budget Request:</b>			<b>\$7,882</b>

Notes

The FY23 program decrease reflects a reduction in Air Force Foreign Lease requirements.

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

**Analysis of Leased Units Exhibit (FH-4)**

LOCATION	FY 21			FY 22			FY 23		
	# UNITS	LEASE MONTHS	COST (\$000)	# UNITS	LEASE MONTHS	COST (\$000)	# UNITS	LEASE MONTHS	COST (\$000)
<b><u>DOMESTIC LEASES</u></b>									
CONUS-wide (AF Recruiters, ROTC staffs, & other)	3	36	\$96	15	180	\$525	15	180	\$525
Unassigned	3,330	0	\$0	3,318	0	\$0	3,318	0	\$0
<b>TOTAL DOMESTIC LEASES</b>	<b>3,333</b>	<b>36</b>	<b>\$96</b>	<b>3,333</b>	<b>180</b>	<b>\$525</b>	<b>3,333</b>	<b>180</b>	<b>\$525</b>
<b><u>FOREIGN LEASES</u></b>									
<b>Department of State (§2834):</b>									
Abu Dhabi, UAE	9	108	\$629	15	180	\$1,210	13	156	\$1,045
Amman, Jordan	5	60	\$278	6	72	\$504	6	72	\$507
Bangkok, Thailand	1	12	\$42	1	12	\$65	1	12	\$65
Bogotá, Colombia	1	12	\$63	1	12	\$69	7	84	\$497
Brasilia, Brazil	1	12	\$87	1	12	\$121	1	12	\$121
Cairo, Egypt	5	60	\$244	5	60	\$475	5	60	\$425
Chiang Mai, Thailand	2	24	\$62	4	48	\$137	2	24	\$85
Classified Location	2	24	\$159	3	36	\$267	3	36	\$275
Copenhagen, Denmark	1	12	\$84	2	24	\$192	2	24	\$212
Doha, Qatar	1	12	\$75	2	24	\$161	2	24	\$174
Mexico City, Mexico	10	120	\$543	12	144	\$618	10	120	\$573
Oslo, Norway	1	12	\$85	1	12	\$89	1	12	\$92
Paris, France	9	108	\$713	12	144	\$1,173	12	144	\$1,188
Santiago, Chile	2	24	\$104	2	24	\$126	2	24	\$129
Tel Aviv, Israel	1	12	\$94	2	24	\$188	2	24	\$195
<b>DoS Subtotal</b>	<b>51</b>	<b>612</b>	<b>\$3,262</b>	<b>69</b>	<b>828</b>	<b>\$5,395</b>	<b>69</b>	<b>828</b>	<b>\$5,583</b>
<b>AF Foreign Leases (§2828):</b>									
Doha, Qatar	19	228	\$1,332	36	432	\$2,533	10	120	\$755
Geilenkirchen, Germany	1	12	\$64	1	12	\$67	1	12	\$69
Aviano, Italy	15	180	\$469	18	216	\$882	18	216	\$825
Mayaguez, Puerto Rico	1	12	\$47	1	12	\$49	1	12	\$53
Stavanger, Norway	1	12	\$67	1	12	\$69	1	12	\$72
<b>AF Foreign Leases Subtotal</b>	<b>37</b>	<b>444</b>	<b>\$1,979</b>	<b>57</b>	<b>684</b>	<b>\$3,600</b>	<b>31</b>	<b>372</b>	<b>\$1,774</b>
Unassigned	8,900	0	\$0	8,862	0	\$0	8,888	0	\$0
<b>TOTAL FOREIGN LEASES</b>	<b>8,988</b>	<b>1,056</b>	<b>\$5,241</b>	<b>8,988</b>	<b>1,512</b>	<b>\$8,995</b>	<b>8,988</b>	<b>1,200</b>	<b>\$7,357</b>
<b>GRAND TOTAL FH-4</b>	<b>12,321</b>	<b>1,092</b>	<b>\$5,337</b>	<b>12,321</b>	<b>1,692</b>	<b>\$9,520</b>	<b>12,321</b>	<b>1,380</b>	<b>\$7,882</b>

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

**Analysis of High Cost Leased Units (FH-4) (Other than Section 801)**

LOCATION	FY23 TOTAL LEASES PER LOCATION	FY21			FY22			FY22		
		HIGH COST UNITS	HIGH COST DEFINED	EST COST (\$000)	HIGH COST UNITS	HIGH COST DEFINED	EST COST (\$000)	HIGH COST UNITS	HIGH COST DEFINED	EST COST (\$000)
<b>DOMESTIC LEASES</b>	0	0	\$35,438	\$0	0	\$36,216	\$0	0	\$36,216	\$0
<b>Sub-Total Domestic High-cost</b>	0	0		\$0	0		\$0	0		\$0
<b>FOREIGN LEASES</b>										
Doha, Qatar	10	19	\$53,864	\$1,332	36	\$56,191	\$2,533	10	\$56,191	\$755
Geilenkirchen, Germany	1	1	\$53,864	\$64	1	\$56,191	\$67	1	\$56,191	\$69
Stavanger, Norway	1	1	\$53,864	\$67	1	\$56,191	\$69	1	\$56,191	\$72
<b>Sub-Total Foreign High-cost</b>	<b>12</b>	<b>21</b>		<b>\$1,463</b>	<b>38</b>		<b>\$2,669</b>	<b>12</b>		<b>\$896</b>
<b>GRAND TOTAL FH-4A</b>	<b>12</b>	<b>21</b>		<b>\$1,463</b>	<b>38</b>		<b>\$2,669</b>	<b>12</b>		<b>\$896</b>

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

FAMILY HOUSING PRIVATIZATION

**Budget Request (\$ in Thousands)**

FY 2023 Budget Request	\$33,517
FY 2022 Budget Request	\$23,275
FY 2022 Appropriation	\$23,275

Purpose and Scope

The Department of the Air Force uses the Military Housing Privatization Initiative (MHPI) program to provide quality and affordable housing to military members and their families throughout the continental United States (U.S.) at locations where adequate housing in the local community is not sufficient. The Air Force's program consists of an end state of 52,181 privatized homes at 63 installations within 31 privatization projects. This represents 99.8% of the total on-base family housing inventory in the U.S. The Air Force plans to complete the Initial Development Period for 100% of the projects by the end of FY23, extended from FY19 due to environmental remediation delays and time required to accumulate funds for demolition. To date, privatization has provided the Air Force with 22,193 new homes and 12,295 renovated homes, in addition to the 17,643 homes conveyed as-is at project closings. The remaining homes are on schedule to be replaced or renovated by Q1 of FY23. In FY 2022 the Air Force divested the Robins 1 MHPI project. The Air force is focused on sustaining the housing privatization program through detailed portfolio and asset management process. The Air Force remains committed to providing members and their families access to safe and adequate housing facilities and services.

Program Summary

The FY 2023 funding request provides \$33,517,000 portfolio oversight and management. This program funds all costs related to family housing privatization, to include civilian pay for portfolio management personnel, privatized housing resident advocates, travel, contracts for environmental assessments, financial consultant services, project construction oversight, and training. This funding ensures the Air Force maintains oversight and accountability and fulfills reporting requirements mandated in Title 10, United States Code, Section 2885. In addition, long-term project oversight is essential to ensuring the Air Force continues to receive quality housing from the privatized housing project owners.

It is estimated that the Air Force will pay basic allowance for housing (BAH) under section 403 of title 37 to members living in privatized housing the amounts of \$891,194,036 in FY 2022 and \$927,732,992 in FY 2023. The number of units of military family housing upon which these estimated payments are made is 40,361 in FY 2022 and 39,357 in FY 2023. The number of units of military unaccompanied housing upon which these estimated payments are made is 117 in FY 2022 and 94 in FY 2023.

These estimates meet the reporting requirement stipulated in 10 USC 2884(b)(2). However, it must be noted that it is difficult to project the true cost of BAH allowances provided to members living in privatized housing. BAH allowances for members in privatized housing are not specifically tracked in budget or execution data, as these members receive the same allowances as those who live on the economy. BAH accounting data is available for only the various categories of payments (for instance, domestic with and without dependents, partial, overseas housing allowances, etc.).

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RECONCILIATION OF INCREASES AND DECREASES

Housing Privatization Exhibit OP-5

**Housing Privatization Support**

	<b><u>(\$ in Thousands)</u></b>
1. FY 2022 President's Budget Request:	\$23,275
2. FY 2022 Appropriated Amount:	\$23,275
3. FY 2022 Current Estimate:	\$23,275
4. Price Growth:	\$466
a. General Inflation	2.00%      \$466
5. Program Decrease:	\$0
6. Program Increase:	\$9,776
7. FY 2023 Budget Request:	\$33,517

**Notes:**

Analysis of changes in Privatization:

The FY23 program increase provides funds for mandated housing inspection and assessment requirements as required by the National Defense Authorization Acts for FY 2020 and FY 2021. The Air Force is committed to long-term project oversight to ensure program accountability and compliance.



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**Family Housing Privatization Comparison Exhibit (FH-6)**

Privatization Date <sup>1</sup>	MHPI Project Name <sup>2</sup>	Installation/State <sup>3</sup>	Approved by OSD & OMB <sup>4</sup>						Actual/Current <sup>5</sup>							MHPI Authorities <sup>13</sup>
			No. Units Conveyed <sup>5</sup>	No. End State Units <sup>6</sup>	Funding Source <sup>5</sup>				No. Units Conveyed <sup>9</sup>	End State Units <sup>10</sup>	Total No. Units in Current Inventory <sup>11</sup>	Funding Source <sup>12</sup>				
					Amount (\$M) <sup>7a</sup>	Budget Year(s) <sup>7b</sup>	Type of Funds <sup>7c</sup>	Source Project Name <sup>7d</sup>				Amount (\$M) <sup>12</sup>	Budget Year(s) <sup>12</sup>	Type of Funds <sup>12</sup>	Source Project Name <sup>12</sup>	
Aug-98	Lackland I	Lackland AFB, TX (Ph I)	272	420	6.200	97	Construction	Lackland SIOH	272	420	420	6.161	97	Construction	Lackland SIOH	1, 2, 5
						96	Construction	Lackland					96	Construction	Lackland	
Sep-00	Robins I	Robins AFB, GA (Ph I)	670	670	12.800	98	Construction	Robins Replace MFH Ph 4 (60)	0	0	0	16.924	05	FHIF	Wright Patterson II	1, 2, 5
						98	Construction	Robins Replace MFH Ph 4 (60)					98	Construction	Robins Replace MFH Ph 4 (60)	
						97	Construction	Dyess Construct MFH Ph 1 (70)					97	Construction	Dyess Construct MFH Ph 1 (70)	
Sep-00	Dyess	Dyess AFB, TX	0	402	16.300	99	Construction	Dyess-Construct MFH Ph 2 (64)	0	402	402	16.269	99	Construction	Dyess-Construct MFH Ph 2 (64)	1
						98	Construction	Dyess-Construct MFH Ph 1 (70)					98	Construction	Dyess-Construct MFH Ph 1 (70)	
Mar-01	Elmendorf I	Elmendorf AFB, AK (Ph I)	584	828	23.304	98	Improvement	Elmendorf-Improve MFH Ph 9 (82 units)	584	828	828	23.304	98	Improvement	Elmendorf-Improve MFH Ph 9 (82 units)	1, 5
								HRSO to FHIF							HRSO to FHIF	
Aug-02	Wright-Patterson I	Wright-Patterson AFB, OH (Ph I)	1,733	1,536	10.813	02	Improvement	Hickam-Privatize MFH	1,733	1,536	1,536	10.715	02	Improvement	Hickam-Privatize MFH	1, 2, 5
						99	Construction	Wright Patterson-Replace 40 Units					99	Construction	Wright Patterson-Replace 40 Units	
Apr-03	Kirtland	Kirtland AFB, NM	1,783	1,078	24.221	02	Construction	Travis - Replace MFH Ph 1	1,783	1,078	1,303	24.013	02	Construction	Travis - Replace MFH Ph 1	1, 2, 5
						02	Construction	Mountain Home-Replace MFH 56 Units					02	Construction	Mountain Home-Replace MFH 56 Units	
						99	Construction	Kirtland-Replace MFH Ph 5 (37)					99	Construction	Kirtland-Replace MFH Ph 5 (37)	
Aug-04	Buckley	Buckley AFB, CO	0	351	15.619	04	Improvement	Hickam - Improve 190 MFH	0	351	351	17.893	04	Improvement	Hickam - Improve 190 MFH	1, 5
						02	Construction	Buckley-Privatize MFH					02	Construction	Buckley-Privatize MFH	
Sep-04	Elmendorf II	Elmendorf AFB, AK (Ph II)	986	1,194	41.496	03	Improvement	Elmendorf-192 Ph 11 Improve	986	1,194	1,194	41.496	03	Improvement	Elmendorf-192 Ph 11 Improve	1, 4, 5
						02	Improvement	Elmendorf-Privatize MFH					02	Improvement	Elmendorf-Privatize MFH	
Feb-05	Hickam I	Hickam AFB, HI (Ph I)	1,356	1,356	4.194	02	Improvement	Hickam Privatize MFH	1,356	1,356	1,356	4.185	02	Improvement	Hickam Privatize MFH	1, 5
Sep-05	Offutt	Offutt AFB, NE	2,600	1,640	12.568	01	Improvement	Offutt Privatize MFH	2,600	1,640	1,954	12.568	01	Improvement	Offutt Privatize MFH	1, 5
Sep-05	Hill	Hill AFB, UT	1,138	1,018	11.280	05	Improvement	Davis-Monthan, Repair MFH Ph 6	1,138	1,018	1,090	11.656	05	Improvement	Davis-Monthan, Repair MFH Ph 6	1, 5
						01	Improvement	Hill, Privatize MFH					01	Improvement	Hill, Privatize MFH	
Sep-05	Dover	Dover AFB, DE	1,488	980	12.425	05	Improvement	Fairchild AFB - Privatize MFH	1,488	980	980	12.278	05	Improvement	Fairchild AFB - Privatize MFH	1, 5

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Privatization Date <sup>1</sup>	MHPI Project Name <sup>2</sup>	Installation/State <sup>3</sup>	Approved by OSD & OMB <sup>4</sup>						Actual/Current <sup>8</sup>						MHPI Authorities <sup>13</sup>	
			No. Units Conveyed <sup>5</sup>	No. End State Units <sup>6</sup>	Funding Source <sup>5</sup>				No. Units Conveyed <sup>9</sup>	End State Units <sup>10</sup>	Total No. Units in Current Inventory <sup>11</sup>	Funding Source <sup>12</sup>				
					Amount (\$M) <sup>7a</sup>	Budget Year(s) <sup>7b</sup>	Type of Funds <sup>7c</sup>	Source Project Name <sup>7d</sup>				Amount (\$M) <sup>12</sup>	Budget Year(s) <sup>12</sup>	Type of Funds <sup>12</sup>		Source Project Name <sup>12</sup>
Jan-06	Scott	Scott AFB, IL	1,430	1,593	0.000	N/A	N/A	N/A	1,430	1,593	1,593	0.000	N/A	N/A	N/A	1, 5
May-06	Nellis	Nellis AFB, NV	1,278	1,178	1,827	05	Improvement	Holloman - Privatize MFH	1,278	1,178	1,178	1,827	05	Improvement	Holloman - Privatize MFH	1, 5
						02	Improvement	Nellis - Privatize MFH					02	Improvement	Nellis - Privatize MFH	
Sep-06	McGuire	McGuire AFB/Ft. Dix, NJ	2,364	2,083	7.569	02	Improvement	McGuire Privatize MFH	2,364	2,084	2,212	5.270	02	Improvement	McGuire Privatize MFH	1, 5
Feb-07	AETC Group I	Altus AFB, OK	883	530	6.244	04	Improvement	Sheppard Privatize 1,288 MFH	883	530	530	6.244	04	Improvement	Sheppard Privatize 1,288 MFH	1, 5
		Luke AFB, AZ	690	550					690	550	550					
		Sheppard AFB, TX	1,167	714					1,167	714	714					
		Tyndall AFB, FL	848	813					848	593	97					
		<b>AETC Group I Total:</b>	<b>3,588</b>	<b>2,607</b>					<b>3,588</b>	<b>2,387</b>	<b>1,891</b>					
May-07	USAFA	US Air Force Academy, CO	1,208	427	2.219	06	Improvement	AF Academy Privatize 445 Units	1,207	425	669	2.219	06	Improvement	AF Academy Privatize 445 Units	1, 5
Jul-07	ACC Group II	Davis-Monthan AFB, AZ	1,256	929	27.922	05	Construction	Davis-Monthan AFB - Replace FH Ph 6	1,256	961	1,174	27.922	05	Construction	Davis-Monthan AFB - Replace FH Ph 6	1, 5
		Holloman AFB, NM	1,009	909					929	923	1,065					
		<b>ACC Group II Total:</b>	<b>2,265</b>	<b>1,838</b>					<b>2,185</b>	<b>1,884</b>	<b>2,239</b>					
Aug-07	Hickam II	Hickam AFB, HI (Ph II)	1,303	1,118	0.000	N/A	N/A	N/A	1,303	1,118	1,139	0.000	N/A	N/A	N/A	5
Sep-07	Tri-Group	Los Angeles AFB, CA	617	572	19.950	06	Improvement	Fort MacArthur - Improve 188 Units	617	613	617	19.945	06	Improvement	Fort MacArthur - Improve 188 Units	3, 5
		Peterson AFB, CO	493	723					493	669	669					
		Schriever AFB, CO	0	269					0	242	242					
		<b>Tri-Group Total:</b>	<b>1,110</b>	<b>1,564</b>					<b>1,110</b>	<b>1,524</b>	<b>1,528</b>					
Sep-07	BLB				15.300	06	Improvement	Bolling, Improve 24 Units				71.289	16	Improvement	Kadena AB, Misawa AB and Yokota AB - Construction Improvement Projects	1, 5
									06	Improvement	Bolling, Improve 24 Units					
		Barksdale AFB, LA	729	1,090					05	Improvement	Barksdale, Imp MFH Ph 1					

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					Amount (\$M) <sup>7a</sup>	Budget Year(s) <sup>7b</sup>	Type of Funds <sup>7c</sup>	Source Project Name <sup>7d</sup>				Amount (\$M) <sup>12</sup>	Budget Year(s) <sup>12</sup>	Type of Funds <sup>12</sup>		Source Project Name <sup>12</sup>	
		Joint Base Anacostia-Bolling (Bolling), MD	1,343	669		05	Improvement	Langley, Improve Electrical System	1,343	772	850		05	Improvement	Langley, Improve Electrical System		
		Joint Base Langley-Eustis (Langley), VA	1,496	1,430		03	Construction	Eglin, 234 MFH Ph 2A	1,496	1,430	1,430		03	Construction	Eglin, 234 MFH Ph 2A		
		<b>BLB Total:</b>	<b>3,568</b>	<b>3,189</b>		03	Improvement	Eglin - Hurlburt 213 MFH Improvement	<b>3,562</b>	<b>3,192</b>	<b>3,370</b>		03	Improvement	Eglin - Hurlburt 213 MFH Improvement		
Oct-07	Robins II	Robins AFB, GA (Ph II)	563	207	10.600	05	Improvement	FY 05 Robins, Improve Family Housing	558	207	254	10.600	05	Improvement	FY 05 Robins, Improve Family Housing	3, 5	
Oct-07	AETC Group II	Columbus AFB, MS	518	453	59.000	06	Improvement	Andrews-Improve 178 Units	517	453	453	59.000	06	Improvement	Andrews-Improve 178 Units	3, 5	
		Goodfellow AFB, TX	98	241		05	Improvement	Randolph, Construct MFH Ph 1	98	241	241		05	Improvement	Randolph, Construct MFH Ph 1		
		Laughlin AFB, TX	534	516		05	Construction	Davis-Monthan, Repair MFH Ph 6	534	451	451		05	Construction	Davis-Monthan, Repair MFH Ph 6		
		Maxwell AFB, AL	729	501		03	Construction	Hurlburt, 134 MFH Ph 2A	723	501	513		03	Construction	Hurlburt, 134 MFH Ph 2A		
		JBSA-Randolph, TX	397	317		03	Improvement	Eglin - Hurlburt 213 MFH Improvement	397	317	317		03	Improvement	Eglin - Hurlburt 213 MFH Improvement		
		Vance AFB, OK	230	229					230	242	242						
		<b>AETC Group II Total:</b>	<b>2,506</b>	<b>2,257</b>					<b>2,499</b>	<b>2,205</b>	<b>2,217</b>						
Nov-07	Vandenberg	Vandenberg AFB, CA	1,336	867	0.000	N/A	N/A	N/A	1,336	867	999	0.000	N/A	N/A	N/A	5	
Nov-07	AMC East	Andrews AFB, MD	1,480	887	0.000	N/A	N/A	N/A	1,466	933	1,113	0.000	N/A	N/A	N/A	3, 5	
		MacDill AFB, FL	752	571					752	572	572						
		<b>AMC East Total:</b>	<b>2,232</b>	<b>1,458</b>					<b>2,218</b>	<b>1,505</b>	<b>1,685</b>						
Jul-08	AMC West	Fairchild AFB, WA	1,055	641	28.190	04	Construction	Tinker, Privatize 730 MFH	1,055	641	641	28.190	04	Construction	Tinker, Privatize 730 MFH	1, 5	
		Tinker AFB, OK	694	660		04	Improvement	Sheppard, Privatize 1,288 Units	694	660	660		04	Improvement	Sheppard, Privatize 1,288 Units		
		Travis AFB, CA	2,187	1,134				FHIF Funds	1,094	1,134	1,273				FHIF Funds		
		<b>AMC West Total:</b>	<b>3,936</b>	<b>2,435</b>					<b>2,843</b>	<b>2,435</b>	<b>2,574</b>						
Nov-08	Falcon Group	Hanscom AFB, MA	726	746	15.723	02	Improvement	Hickam - Privatize MFH	726	731	731	15.723	02	Improvement	Hickam - Privatize MFH	1, 5	
		Little Rock AFB, AR	1,295	999		01	Improvement	Moody MFH Privatization	1,295	991	991		01	Improvement	Moody MFH Privatization		
		Moody AFB, GA	303	256		01	Construction	Travis - Replace 64 Units	303	287	287		01	Construction	Travis - Replace 64 Units		
		Patrick AFB, FL	991	616		00	Improvement	Little Rock - Privatize MFH	991	616	616		00	Improvement	Little Rock - Privatize MFH		

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			No. Units Conveyed <sup>5</sup>	No. End State Units <sup>6</sup>	Funding Source <sup>5</sup>				No. Units Conveyed <sup>9</sup>	End State Units <sup>10</sup>	Total No. Units in Current Inventory <sup>11</sup>	Funding Source <sup>12</sup>				
					Amount (\$M) <sup>7a</sup>	Budget Year(s) <sup>7b</sup>	Type of Funds <sup>7c</sup>	Source Project Name <sup>7d</sup>				Amount (\$M) <sup>12</sup>	Budget Year(s) <sup>12</sup>	Type of Funds <sup>12</sup>		Source Project Name <sup>12</sup>
		<b>Falcon Group Total:</b>	<b>3,315</b>	<b>2,617</b>					<b>3,315</b>	<b>2,625</b>	<b>2,625</b>					
Dec-08	Lackland II	Lackland AFB, TX (Ph II)	264	465	21.785	05	Improvement	Robins - Improve Family Housing	264	465	613	21.618	05	Improvement	Robins - Improve Family Housing	1, 5
						03	Improvement	Keesler - Replace 117 Ph 1					03	Improvement	Keesler - Replace 117 Ph 1	
						03	Improvement	Eglin - Hurlburt 213 MFH Improve					03	Improvement	Eglin - Hurlburt 213 MFH Improve	
Jun-11	JBER	JB Elmendorf-Richardson	1242	1240	36.800	11	Improvement	Army Funds Transferred	1,242	1,240	1,240	36.798	11	Improvement	Army Funds Transferred	1, 5
Sep-11	Southern Group	Arnold AFB, TN	40	22	23.354	07	Construction	Mountain Home - Replace 457 MFH	40	22	22	23.354	07	Construction	Mountain Home - Replace 457 MFH	1, 5
		Charleston AFB, SC	478	345					478	345	599					
		Keesler AFB, MS	1,188	1,188					1,188	1,188	1,188					
		Shaw AFB, SC	681	630					679	630	633					
		<b>Southern Group Total:</b>	<b>2,387</b>	<b>2,185</b>					<b>2,385</b>	<b>2,185</b>	<b>2,442</b>					
Mar-12	Western Group	Beale AFB, CA	884	509	20.053	07	Construction	Mountain Home - Replace 457 MFH	683	509	509	20.053	07	Construction	Mountain Home - Replace 457 MFH	1, 5
		F.E. Warren AFB, WY	831	749					831	749	749					
		Malmstrom AFB, MT	1,412	1,116					1,168	1,116	1,116					
		Whiteman AFB, MO	920	890					920	890	890					
		<b>Western Group Total:</b>	<b>4,047</b>	<b>3,264</b>					<b>3,602</b>	<b>3,264</b>	<b>3,264</b>					
Aug-13	Northern Group	Cannon AFB, NM	763	1,038	37.813	09	Improvement	Kadena - Improve 614 MFH (Ph 9) Misawa - Improve 370 MFH (Ph 4)	763	1,038	1,038	37.576	09	Improvement	Kadena - Improve 614 MFH (Ph 9) Misawa - Improve 370 MFH (Ph 4)	1, 2, 5
		Cavalier AFB, ND	14	14					14	14	14					
		Ellsworth AFB, SD	283	497					283	497	500					
		Grand Forks AFB, ND	833	547					833	547	547					
		Minot AFB, ND	1,746	1,606					1,746	1,440	1,440					
		Mountain Home AFB, ID	956	844					956	844	844					
		<b>Northern Group Total:</b>	<b>4,595</b>	<b>4,546</b>					<b>4,595</b>	<b>4,380</b>	<b>4,383</b>					
	Continental Group	Edwards AFB, CA	741	741	82.610	09	Improvement	Mountain Home - Replace 457 MFH Kadena - Improve 614 MFH (Ph 9)	741	741	741	80.181	09	Improvement	Mountain Home - Replace 457 MFH Kadena - Improve 614 MFH (Ph 9)	1, 2, 5
Sep-13		Eglin AFB, FL	898	747					894	747	861					

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					Amount (\$M) <sup>7a</sup>	Budget Year(s) <sup>7b</sup>	Type of Funds <sup>7c</sup>	Source Project Name <sup>7d</sup>				Amount (\$M) <sup>12</sup>	Budget Year(s) <sup>12</sup>	Type of Funds <sup>12</sup>		Source Project Name <sup>12</sup>
		Eielson AFB, AK	934	898				Yokota - Improve 350 MFH (Ph 7)	934	898	898				Yokota - Improve 350 MFH (Ph 7)	
		Hurlburt AFB, FL	380	404				Misawa - Improve 370 MFH (Ph 4)	380	404	429				Misawa - Improve 370 MFH (Ph 4)	
		McConnell AFB, KS	401	364					401	364	381					
		Seymour Johnson, NC	708	708					686	686	686					
		<b>Continental Group Total:</b>	<b>4,062</b>	<b>3,862</b>					<b>4,036</b>	<b>3,840</b>	<b>3,996</b>					
Sep-13	ACC Group III	Dyess AFB, TX (PH II)	674	674	9.617	09	Improvement	Yokota - Improve 350 MFH (Ph 7)	674	674	674	6.315	09	Improvement	Yokota - Improve 350 MFH (Ph 7)	1, 2, 5
		Moody AFB, GA (PH II)	0	184					0	101	101				Misawa - Improve 370 MFH (Ph 4)	
		<b>ACC Group III Total:</b>	<b>674</b>	<b>858</b>					<b>674</b>	<b>775</b>	<b>775</b>					
<b>Grand Totals<sup>14</sup></b>			<b>61,883</b>	<b>53,331</b>	<b>617.796</b>				<b>59,534</b>	<b>52,181</b>	<b>54,300</b>	<b>671.586</b>				

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**Notes:**

- 1 - The date real property is transferred (land and housing units) to private ownership/developer, and when service members become entitled to receive a Basic Allowance for Housing (BAH).
- 2 - Provide the name of the MHPI Project given to the privatization project, including the name given to integrated/grouped projects. The MHPI project name should be consistent with the MHPI project name used in the previously approved OSD/OMB Scoring report and/or subsequent notification to Congress.
- 3 - List the MHPI project location by installation and state, including each installation/state incorporated into the integrated/grouped MHPI project.
- 4 - This section relates the previously-approved OSD/OMB project scope and funding amounts contained in the scoring package and/or subsequent Notification of Funds Transfer letters to Congress.
- 5 - Provide the number of family housing units to be conveyed by installation and state to the Developer, including each installation and state incorporated into the integrated/grouped MHPI project, as previously-approved in the OSD/OMB Scoring report.
- 6 - Provide the end state number of family housing units by installation and state to the Developer, including each installation/state incorporated into the integrated/grouped MHPI project, as previously-approved in the OSD/OMB Scoring report.
- 7 - Provide all of the funding source information for the MHPI project as reflected in the previously-approved OSD/OMB report and consistent with the project summary details accompanying the Notification of Transfer letter to Congress, such as: a. The amount of funds to be used for the Government's cost of the project (i.e., equity contribution, credit subsidy costs, differential lease payments, etc.). b. The fiscal year(s) of the funding sources to be used to cover the Government's cost of the MHPI project. c. The type of funds (e.g., FH New Construction, FH Construction Improvements, FH Improvement Funds) to be used to cover the Government's cost of the MHPI project. d. The project(s) that are used to source the Government's cost of the privatization project.
- 8 - This section relates to the Military Departments' actual and/or current plan, which might or might not be consistent with the details contained in the previously-approved OSD/OMB Scoring report and project summary to Congress for the MHPI project due to extenuating circumstances.
- 9 - Provide the actual and/or revised planned number of family housing units conveyed to the Developer by installation and state, including each installation/state incorporated into the integrated/grouped MHPI project.
- 10 - Provide the actual and/or revised, planned number of family housing end state units by installation and state, including each installation/state incorporated into the integrated/grouped MHPI project. Comments to 08/13/20 reporting: AETC Group 1 (cell K34) Approved end state rebuild at Tyndall after Hurricane Michael recovery changed from 813 to 593 units. Updated 30Mar2022: BLB: (Cells K46 and K47) Per the terms of the approved restructure, 100 "End State" units were "swapped" from Barksdale to Bolling effectively reducing the unit count at Barksdale to 990 from 1090 (cell K46) and increasing the unit count at Bolling from 672 to 772 (cell K47) with an additional 43 excess units online along with the proposal to bring an additional 21 units back on line in 2022. There are 14 other units being used as Maintenance storage facilities and will continue being used as such. The DL modification cost is noted in "12" below.
- 11 - Provide the total number of privatized family housing units in the inventory for each MHPI project by installation/state, including each installation/state incorporated into the integrated/grouped MHPI project, regardless if they are currently occupied or not. Kirtland increased by 1 unit due to one unit used as office/storage not accounted for on previous FH-6; ACC II-Holloman decreased by 10 over previous FH-6 which erroneously included ten units demolished in previous years; Hickam increased by 6 units at Bellows Air Force Station and 1 model unit not counted in previous FH-6; Tri-Group-Los Angeles increased by 4 for a quadplex not part of project end state but renting two units and using the other two units for storage; AMC East-Andrews decreased by 28 units erroneously counted that had been demolished in previous years; Northern Group change due to Initial Development Period (IDP) progress; Continental Group-Eglin change due to IDP progress; Continental Group-Hurlburt change due to IDP progress; Continental Group-McConnell change due to IDP progress. Comments to 08/13/20 reporting: AETC Group 1 (cell K34) Approved end state rebuild at Tyndall after Hurricane Michael recovery changed from 813 to 593 units and (cell L34) 52 units have been restored and are online for occupancy as of 31 Jul. AMC East (Cell L59) 933 was the end state; however, 2 of the Madison burn units were deleted because they were not rebuilt. Northern Group: (cell L87) 3 NDSU Units were a part of Hunt's project back in the 90s. They were not part of the inventory until 2016. Wing leadership was living in those homes and didn't want them to be torn down, so Hunt transferred them to BBC and BBC renovated them and includes them in the inventory now. The 3 units are SOQ's but are classified as NDSU's because they were transferred from 801 housing. Updates as of 08/3/2021: Hill (cell L23) total no. of units in current inventory changed from 1082 to 1090 (increased by 8 units) with 10 new units built and 2 units demolished in 2017. AETC Group 1 Tyndall AFB (cell L34) total no. units in inventory changed from 52 to 97 and (cell L35) project total changed from 1846 units to 1891 (increased by 45 units). As of 31 Dec 20, total 97 units have been rebuilt. Updated 30 Mar 2022: Robins AFB, GA (Ph I) End State Units decreased by 670 (cells E6 and K6) and Total No. Units in Current Inventory decreased by 670 (cell L6) upon divestiture from DAF MHPI portfolio on 31 Oct 2021. The DL modification is noted in "12" below. The Northern Group-Minot End State Units (cell K90 and Total No. Units in Current Inventory (cell L90) changed from 1,606 to 1,440 - 166 NDSUs demolished.
- 12 - Provide all the "actual and/or current" funding sources used to fund the MHPI project, which might or might not be consistent with the details contained in the previous-approved OSD/OMB Scoring report and project summary (i.e., project amount, budget year of funds, source project, appropriation) to Congress for the MHPI project due to extenuating circumstances. If possible and/or available, please provide the requested funding information by installation/state. Change to scoring reported as actual for Wright Patterson as a result of actual scoring found in historical records. Updated 30 Mar 22: (1) Robins AFB, GA (PHI) was divested from DAF MHPI Portfolio on 31 Oct 2021. The DL modification cost was \$4.364 Million. (2) BLB Group Loan Modification occurred in FY 2020. The modification cost was \$56.059 million.
- 13 - Provide the applicable MHPI authorities in subchapter IV of Chapter 169 in title 10 U.S.C. was used and/or proposed to be used for the privatization project. Designators are as follows:
  - 1 = 10 USC 2873 - Government Direct Loans
  - 2 = 10 USC 2873 - Loan Guarantees
  - 3 = 10 USC 2875 - Investments, such as DoD Equity Contributions in non-governmental entities
  - 4 = 10 USC 2877 - Differential Lease Payments
  - 5 = 10 USC 2878 - Conveyance or Lease of Existing Property and Facilities
- 14 - Totals of number of units conveyed, number of end state units, and funding amounts.

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2023 BUDGET REQUEST**

FOREIGN CURRENCY EXCHANGE DATA (PB-18)  
(\$ in Thousands)

MFH O&M		FY 2021		FY 2022		FY 2023	
Country	Local Currency	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion
Denmark	Krone	6.7012		6.4823		6.2395	
European Comm	Euro	0.8978	\$ 42,342	0.8703	\$ 36,401	0.839	\$ 57,167
Japan	Yen	107.9114	\$ 37,736	106.4531	\$ 49,698	109.7015	\$ 159,458
Norway	Krone	8.881	\$ -	9.3841	\$ -	8.5634	\$ -
Singapore	Dollar	1.3713	\$ -	1.3826	\$ -	1.3426	\$ -
South Korea	Won	1186.8982	\$ 4,624	1190.9277	\$ 3,356	1142.6335	\$ 6,406
Turkey	Lira	5.763	\$ 482	7.2233	\$ -	8.4846	\$ -
United Kingdom	Pound	0.8002	\$ 18,897	0.7843	\$ 13,633	0.7200	\$ 33,650
Total			\$ 104,081		\$ 103,088		\$ 256,681

MFH Construction		FY 2021		FY 2022		FY 2023	
Country	Local Currency	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion
Denmark	Krone	6.7012		6.4823		6.2395	
European Comm	Euro	0.8978	\$ -	0.8703	\$ -	0.839	\$ -
Japan	Yen	107.9114	\$ 94,245	106.4531	\$ 49,258	109.7015	\$ -
Norway	Krone	8.881	\$ -	9.3841	\$ -	8.5634	\$ -
Singapore	Dollar	1.3713	\$ -	1.3826	\$ -	1.3426	\$ -
South Korea	Won	1186.8982	\$ -	1190.9277	\$ -	1142.6335	\$ -
Turkey	Lira	5.763	\$ -	7.2233	\$ -	8.4846	\$ -
United Kingdom	Pound	0.8002	\$ -	0.7843	\$ -	0.7200	\$ -
Total			\$ 94,245		\$ 49,258		\$ -