Department of Defense

Fiscal Year (FY) 2023 Budget Estimates

Military Construction

Family Housing

Defense-Wide

Justification Data Submitted to Congress

March 2022

FY 2023 Budget Estimates
Military Construction, Defense-Wide
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Preparation of the Defense-Wide budget, excluding revolving funds, cost the Department of Defense a total of approximately $1,350,000 in FY 2022.

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FY 2023 Base Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
California				
U.S. Special Operations Command				
Coronado				
SOF Operations Support Facility	75,712	75,712	C	66
Florida				
U.S Special Operations Command				
Hurlburt Field				
SOF Human Performance Training Center	9,100	9,100	C	71
Maryland				
Defense Health Agency				
Naval Support Activity Bethesda				
Medical Center Addition/Alteration Increment 6	-	75,500	C	3
National Security Agency				
Fort Meade				
NSAW Mission Ops and Record Center Increment 2	-	140,000	C	59
NSAW Recapitalization Building #4 Increment 2	-	378,000	C	54
North Carolina				
U.S. Special Operations Command				
Fort Bragg				
SOF Operations Building	18,870	18,870	C	75
SOF Supply Support Activity	15,600	15,600	C	79
Texas				
Defense Health Agency				
Joint Base San Antonio (Lackland Air Force Base)				
Ambulatory Care Clinic Replacement (Dental)	58,600	58,600	C	11
Virginia				
U.S. Special Operations Command				
Dam Neck				
SOF Operations Building Addition	26,600	26,600	C	83
Washington Headquarters Services				
Pentagon				
Commercial Vehicle Inspection Facility	18,000	18,000	C	107

FY 2023 Base Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Germany				
Defense Health Agency				
Rhine Ordnance Barracks				
Medical Center Replacement Increment 10	-	299,790	C	15
DoD Education Activity				
Baumholder				
Baumholder Elementary School	71,000	71,000	C	37
Weisbaden				
Clay Kaserne Elementary School	-	60,000	C	41
U.S. Special Operation Command				
Baumholder				
SOF Battalion Annex	22,468	22,468	C	97
SOF Communications Annex	9,885	9,885	C	94
SOF Operations Annex	23,768	23,768	C	90
SOF Support Annex	21,902	21,902	C	87
Japan				
Defense Logistics Agency				
Iwakuni				
PDI: Bulk Storage Tanks Phase 1	-	85,000	C	25
Yokota Air Base				
PDI: Bulk Storage Tanks Phase 1 Increment 2	-	44,000	C	29
DoD Education Activity				
Yokosuka				
Kinnick High School Increment 2	-	20,000	C	46
U.S. Special Operations Command				
Yokota Air Base				
PDI: Operations and Warehouse Facilities	72,154	72,154	C	101

FY 2023 Base Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Defense Level Activities/Worldwide Unspecified				
Energy Resilience and Conservation Investment Program	329,000	329,000	C	110
Unspecified Minor Construction			C	160
Defense Health Agency	-	15,000		
Defense Logistics Agency	-	31,702		
DoD Education Activity	-	8,000		
National Security Agency	-	6,000		
U.S. Special Operations Command	-	36,726		
Joint Chiefs of Staff	-	18,644		
Defense Level Activities	-	3,000		
Total Minor Construction	**-**	**119,072**		
Planning and Design			C	161
Defense Health Agency	-	33,227		
Defense Logistics Agency	-	30,000		
DoD Education Activity	-	20,086		
Missile Defense Agency	-	47,063		
National Security Agency	-	9,618		
U.S. Special Operations Command	-	26,978		
Joint Chiefs of Staff	-	2,360		
Washington Headquarters Services	-	2,106		
Defense Level Activities	-	26,689		
ERCIP Design	-	224,250		
Total Planning and Design	**-**	**422,377**		
Total Military Construction, Defense-Wide	**722,659**	**2,416,398**		

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FY 2023 BASE BUDGET ESTIMATES
Military Construction, Defense-Wide

(Including Transfer of Funds)

For acquisition, construction, installation, and equipment of temporary or permanent public works, installations, facilities, and real property for activities and agencies of the Department of Defense (other than the military departments), as currently authorized by law, $2,416,398,000 to remain available until September 30, 2027: *Provided,* That such amounts of this appropriation as may be determined by the Secretary of Defense available for military construction or family housing as he may designate, to be merged with and to be available for the same purposes, and for the same time period, as the appropriation or fund to which transferred: *Provided further*, That of the amount appropriated, not to exceed $422,377,000 shall be available for study, planning, design, architect and engineer services, as authorized by law, unless the Secretary of Defense determines that additional obligations are necessary for such purposes and notifies the Committees on Appropriations of both Houses of Congress of his determination and the reason therefore.

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FY 2023 Budget Estimates
Military Construction, Defense-Wide
Special Program Considerations

POLLUTION ABATEMENT

The military construction projects proposed in this program will be designed to meet environmental standards. Military construction projects proposed primarily for abatement of existing pollution problems at installation have been reviewed to ensure that corrective design is accomplished in accordance with specific standards and criteria.

ENERGY RESILIENCE AND CONSERVATION

DOD represents three-fourths of federal energy use. Energy Resilience and Conservation Investment Program (ERCIP) projects improve the energy resilience and energy and water efficiency at DOD installations. The ERCIP is a well-managed program with clear, realistic, and attainable goals.

ERCIP construction is funded at $329.0 million in FY 2023. The Department will ensure that the program produces high returns on this investment in terms of energy savings and resilience benefits for mission assurance.

In general, the ERCIP program funds projects that would not necessarily be candidates for other types of funding, like O&M or third-party financing. In addition, in order to support the Department's strategic energy goals, the ERCIP uses several project selection criteria, including:

- **Impact to energy resilience improvement and its contribution to mission assurance at an installation;**
- **Microgrids to support critical mission facilities, strengthen grid resilience, help mitigate grid disturbances, and function as a grid resource for faster system response and recovery improving installation resilience;**
- **Renewable energy, clean energy, and energy storage project(s), particularly when they create a synergistic effect with other technologies, efficiency improvements and "smart" building or grid management systems;**
- **Geothermal Energy Generation project(s) producing "baseload" power and connected to a microgrid for onsite energy production;**
- **Accelerated deployment of Air Source Heat Pump project(s) as demonstrated by ESTCP to support a specific building or a series of buildings;**
- **Infrastructure projects directly supporting Electrical Vehicle (EV) charging stations;**
- **Projects that contribute towards the objectives of Executive Order 14008, "Tackling the Climate Crisis at Home and Abroad" to reduce GHG emissions and DoD's Carbon footprint;**
- **DoD Mission Assurance and Component priority;**

- **Integration of distributed generation or storage to improve energy resilience;**
- **Inclusion in installation, region, department or component energy plan;**
- **Improvements to energy/water efficiency;**
- **Implementation of technologies validated in a test bed demonstration program.**

The ERCIP funds a variety of requirements that save energy which in turns reduces greenhouse gas emissions, reduce DOD's energy costs, improve energy resilience and contribute to mission assurance. In addition, DOD is focusing on the security implications of climate change. Through the ERCIP, DOD is pursuing ways to assist in rapidly lowering global carbon emissions, while also enhancing resilience to climate change. The program supports construction of new, high-efficiency energy systems and the improvement and modernization of existing systems to include clean and renewable energy technologies. Projects are designed to provide maximum energy benefit to the installation through minimizing energy consumption and improving energy resilience.

FLOODPLAIN MANAGEMENT AND WETLANDS PROTECTION

Proposed land acquisitions, disposals, and installation construction projects have been planned to allow the proper management of flood plains and the protection of wetlands by avoiding long-and short-term adverse impacts, reducing the risk of flood losses, and minimizing the loss or degradation of wetlands. Project planning is in accordance with the requirements of Executive Order Nos. 11988, Floodplain Management, and 11990, Protection of Wetlands, and the Floodplain Management Guidelines of the 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.

DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL

In accordance with Public Law 90480 and the Americans with Disabilities Act Accessibility Guidelines, provisions for physically handicapped personnel will be provided for, where appropriate, in the design of facilities included in this program.

PLANNING IN THE NATIONAL CAPITAL REGION

Projects located in the National Capital Region are submitted to the National Capital Planning Commission for budgetary review and comment as part of the Commission's annual review of the Future Years Defense Plan (FYDP). Construction projects within the District of Columbia with the exception of the Bolling/Anacostia area are submitted to the commission for approval prior to the start of construction.

ENVIRONMENTAL PROTECTION

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

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FY 2023 Budget Estimates
Military Construction, Defense-Wide
Agency Summary
($000)

	Authorization	Appropriations
Defense Health Agency	**58,600**	**433,890**
Defense Logistics Agency	**-**	**129,000**
DoD Dependents Education Activity	**71,000**	**151,000**
National Security Agency	**-**	**518,000**
U.S. Special Operations Command	**296,059**	**296,059**
Washington Headquarters Services	**18,000**	**18,000**
Energy Resilience and Conservation Invest Prog	**329,000**	**329,000**
Minor Construction	**-**	**119,072**
Planning and Design	**-**	**422,377**
TOTAL	**772,659**	**2,416,398**

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Defense Health Agency
FY 2023 Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Maryland				
Naval Support Activity Bethesda				
Medical Center Addition/				
Alteration Increment 6	-	75,500	C	3
Texas				
Joint Base San Antonio (Lackland)				
Ambulatory Care Center				
Replacement (Dental)	58,600	58,600	C	11
Germany				
Rhine Ordnance Barracks				
Medical Center Replacement				
Increment 10	-	299,790	C	15
Total	**58,600**	**433,890**		

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (DHA)		MAR 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
NAVSUPPACT Bethesda, Maryland	Commander Navy Installation Command	1.02

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 20180930	2,512	1,617	234	0	0	0	56	36	0	4,455
b. END FY 2025	2,516	1,108	234	0	0	0	56	36	0	3,950

7. INVENTORY DATA *($000)*	
a. TOTAL ACREAGE (acre)	243.00
b. INVENTORY TOTAL AS OF 20190930	2,607,917.00
c. AUTHORIZATION NOT YET IN INVENTORY	695,000.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	0.00
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0.00
f. PLANNED IN NEXT THREE PROGRAM YEARS	254,967.00
g. REMAINING DEFICIENCY	47,046.00
h. GRAND TOTAL	3,604,930.00

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST *($000*	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
51010	MEDCEN Addition / Alteration Incr 6	LS	75,500	FEB 2013	AUG 2017

9. FUTURE PROJECTS

51010	MEDCEN Addition / Alteration Incr7	LS	179,467	FEB 2013	AUG 2017

10. MISSION OR MAJOR FUNCTIONS

Provides customer-focused installation management and base operating support to tenant activities in their pursuit of excellence. Partner in healing, wellness, research and education.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. Component DEF (DHA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**	2. Date MAR 2022

3. Installation and Location:	4. Project Title:
Naval Support Activity Bethesda, Maryland	Medical Center Addition / Alteration, Increment 6

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
87717DHA	51010	96069	Approp 75,500

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				492,214
Medical Center Addition - CATCODE 51010	SF	589,928	715.44	(422,059)
Medical Center Alteration - CATCODE 51010	SF	124,050	565.54	(70,155)
SUPPORTING FACILITIES				133,997
Electric Service	LS	--	--	(6,255)
Water, Sewer, Gas	LS	--	--	(5,440)
Steam and Chilled Water Distribution	LS	--	--	(3,865)
Paving, Walks, Curbs and Gutters	LS	--	--	(14,168)
Storm Drainage	LS	--	--	(5,289)
Site Imp (18,190) Demo (11,104)	LS	--	--	(29,294)
Information Systems	LS	--	--	(5,376)
Antiterrorism/Force Protection	LS	--	--	(5,376)
Construction Phasing	LS	--	--	(13,443)
Special Foundation	LS	--	--	(15,035)
EISA 2007 Section 438 (Low Impact Development)	LS	--	--	(3,031)
Other (O&M Manuals, Post Construction Award Services, Enhanced Commissioning) and Below Grade Coordination	LS	--	--	(27,425)
ESTIMATED CONTRACT COST				626,211
CONTINGENCY PERCENT (5.00%)				31,311
SUBTOTAL				657,522
SUPERVISION, INSPECTION & OVERHEAD (5.70%)				37,479
TOTAL REQUEST				695,001
TOTAL REQUEST (ROUNDED)				695,000
PREVIOUS APPROPRIATIONS				440,033
FUTURE APPROPRIATION REQUEST				179,467
CURRENT APPROPRIATION REQUEST (ROUNDED)				75,500
INSTALLED EQT-OTHER APPROPRIATIONS				(137,954)

10. Description of Proposed Construction:

This is the sixth increment of the NAVSUPPACT Bethesda MD, Medical Center Addition/Alteration (MCAA). The project will construct a new addition for in-patient and out-patient medical care, renovate the existing hospital Buildings 9 and 10, provide information systems, and provide appropriate antiterrorism measures. Deteriorated Buildings 2, 4, 6, 7, 8 and 100 of the main hospital complex will be demolished. Construction requires appropriate setbacks for access to natural light. Supporting facilities include utilities, paving, site improvements, special foundations, and environmental mitigation. The project will be designed in accordance with Unified Facilities Criteria (UFC) 4-510-01 Design: Military Medical Facilities, UFC 1-200-01 General Building Requirements, UFC 1-200-02 High Performance and Sustainable Building Requirements, UFC 4-010-01 DoD Minimum Antiterrorism Standards for Buildings, barrier free design in accordance with Architectural Barriers Act (ABA) Accessibility Standard and DEPSECDEF Memorandum "Access for People with Disabilities" dated 10/31/2008, and MHS World Class principles per World Class Checklist Requirements. The project will be designed to LEED Healthcare (HC) Silver certified. Operations and Maintenance Manuals, Enhanced Commissioning, and Comprehensive Interior Design will be provided.

1. Component DEF (DHA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**	2. Date MAR 2022

3. Installation and Location:	4. Project Title:
Naval Support Activity Bethesda, Maryland	Medical Center Addition / Alteration, Increment 6

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
87717DHA	51010	96069	Approp 75,500

11. REQ: 2,551,618 SF ADQT: 608,163 SUBSTD: 1,229,477 SF

PROJECT:
The using Activity for this project is: Walter Reed National Military Medical Center (WRNMMC). The project implements a comprehensive master plan to provide sufficient world-class military medical facilities and an integrated system of healthcare delivery for the National Capital Region. This renovation of and addition to WRNMMC will provide wounded warriors, active duty military personnel, and other beneficiaries with world-class healthcare services based on the principles of evidence-based design. This project encompasses 124,050 SF of renovations to currently occupied space, demolition of approximately 332,000 SF of aged and deficient buildings, and the construction of a new 589,928 SF state-of-the-art medical services building that will address the facility and program deficiencies identified by the Defense Health Board in their 2009 report. Specific goals of the project include single-bed patient rooms, promotion of family-centered care, use of natural light, and establishing clear way finding for patients, families, visitors and staff. The project will right-size the facility, modernize architectural and engineering systems, improve clinical spaces to support adjacencies, provide functional areas for the Women's Center and Ambulatory Surgery suites. The project will also modernize the Graduate and Professional Medical Education facility, and integrate the latest medical technologies throughout the medical center infrastructure. (CURRENT MISSION)

REQUIREMENT:
The new construction and renovations incorporates the 2010 Joint Task Force study findings and creates a new north-south and east-west axes of travel and will include a new major public entrance on the east side of the facility. Development of these direct pathways will facilitate way finding and improve connectivity among clinics, offices and community facilities.

CURRENT SITUATION:
The current hospital configuration does not meet the needs of the military healthcare mission at this installation. The existing facility lacks flexibility, prohibits expansion, contains deficient electrical, mechanical and environmental engineering systems, and does not provide adequate space to meet health mission programs.

IMPACT IF NOT PROVIDED:
The concerns presented in the May 2009 report from the Defense Health Board will persist at this inefficient, outdated and deficient facility without modernization and improvement to its infrastructure, and the Walter Reed National Military Medical Center will not be able to provide proper healthcare and medical treatment to our military personnel.

JOINT USE CERTIFICATION:
The Chief, Facilities Enterprise, Defense Health Agency has reviewed this project for Joint Use potential. Joint Use construction is recommended.

12. Supplemental Data:

A. Estimated Execution Data
(1) Acquisition Strategy: Design Bid Build
(2) Design Data:
(a) Design Started: FEB/2013

1. Component DEF (DHA)	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. Date MAR 2022

3. Installation and Location:	4. Project Title:
Naval Support Activity Bethesda, Maryland	Medical Center Addition / Alteration, Increment 6

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
87717DHA	51010	96069	Approp 75,500

(b) Percent of Design Completed as of Jan 2022: 100%

Supplemental Data (Continued):

(c) Design Complete: AUG/2017
(d) Total Design Cost ($000): 35,140
(e) Energy Studies and/or Life Cycle Analysis Performed: Yes
(f) Standard or definitive design used? No

(3) Construction Data:

(a) Contract Award SEP/2017
(b) Construction Start NOV/2017
(c) Construction Complete MAY/2027

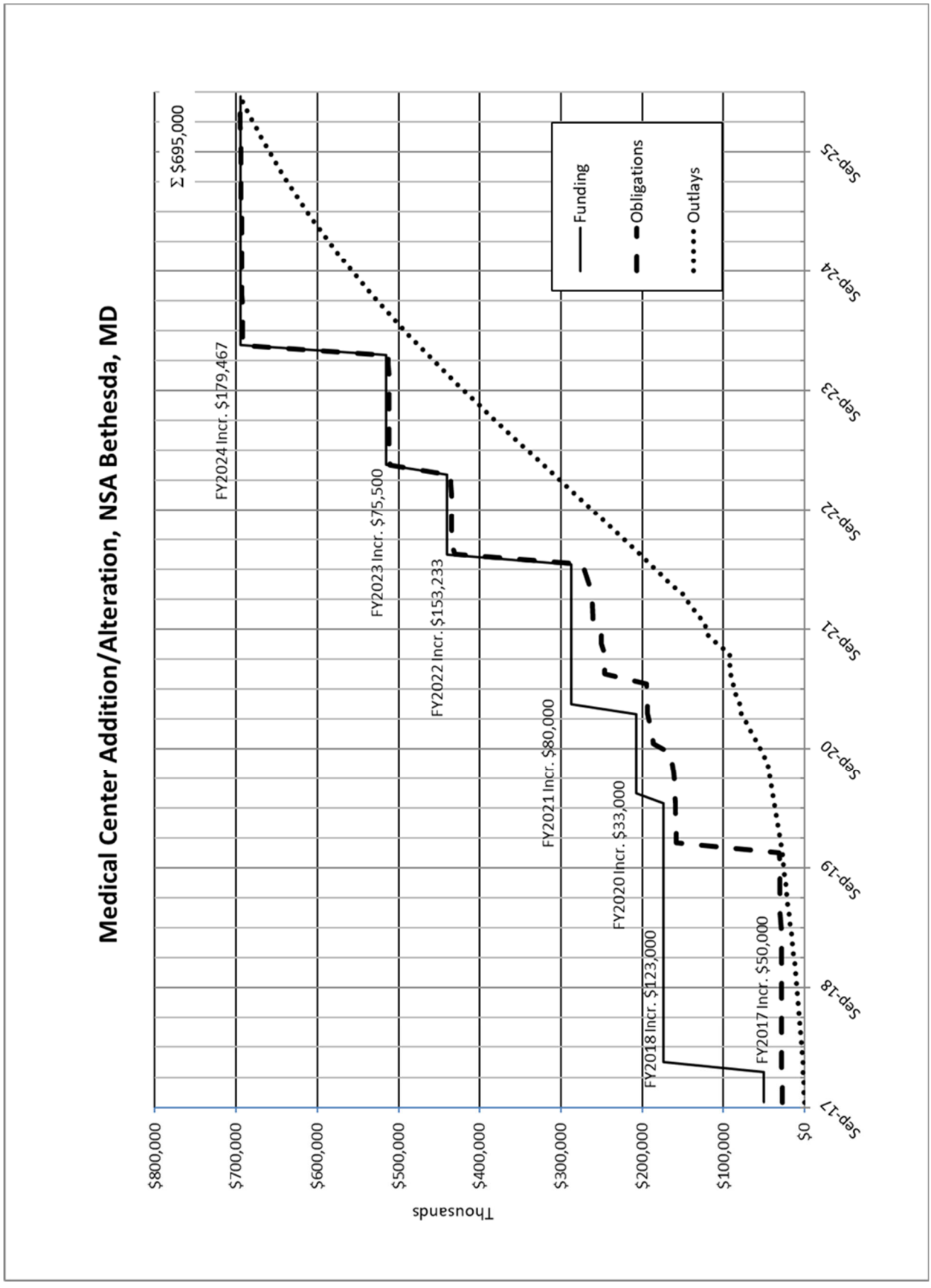
B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Expense	OM	2017	6,350
Expense	OM	2018	19,967
Investment	OP	2019	6,959
Expense	OM	2019	8,576
Investment	OP	2020	6,959
Expense	OM	2020	15,032
Investment	OP	2021	6,959
Expense	OM	2021	27,152
Expense	OP	2022	5,000
Expense	OM	2022	30,000
Expense	OM	2023	5,000

C. FUNDING PROFILE:

	Authorization ($000)	Auth of Approp ($000)	Approp ($000)
FY 2017 Enacted	510,000	50,000	50,000
FY 2018 Enacted	-----	123,800	123,800
Cost Variation July 2019	185,000	-----	-----
FY 2020 Enacted	-----	33,000	33,000
FY 2021 Enacted	-----	50,000	80,000
FY 2022 Enacted	-----	153,233	153,233
FY 2023 Budget Request	-----	75,500	75,500
Future Request	-----	179,467	179,467
Total	695,000	------	695,000

Chief, Design, Construction & Activation Office
Phone Number: 703-275-6077


Medical Center Addition/Alteration, NSA Bethesda, MD
Thousands
$800,000
$700,000
$600,000
$500,000
$400,000
$300,000
$200,000
$100,000
$0
Sep-17
Sep-18
Sep-19
Sep-20
Sep-21
Sep-22
Sep-23
Sep-24
Sep-25
Σ $695,000
FY2024 Incr. $179,467
FY2023 Incr. $75,500
FY2022 Incr. $153,233
FY2021 Incr. $80,000
FY2020 Incr. $33,000
FY2018 Incr. $123,000
FY2017 Incr. $50,000
Funding
Obligations
Outlays

PROJECT SPENDING PLAN

PROJECT : Medical Center Addition/Alteration, NSA Bethesda MD

All costs in thousands ($000)

	FUNDING		OBLIGATIONS		OUTLAYS	
Month - Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
Sep-17	50,000	50,000	27,840	27,840	416	416
Oct-17	-	50,000	9	27,849	465	881
Nov-17	-	50,000	9	27,858	519	1,400
Dec-17	-	50,000	123	27,981	576	1,977
Jan-18	123,800	173,800	19	28,000	637	2,614
Feb-18	-	173,800	9	28,009	702	3,316
Mar-18	-	173,800	178	28,187	768	4,084
Apr-18	-	173,800	9	28,196	836	4,920
May-18	-	173,800	9	28,205	905	5,825
Jun-18	-	173,800	9	28,214	974	6,799
Jul-18	-	173,800	123	28,338	1,041	7,841
Aug-18	-	173,800	9	28,347	1,107	8,947
Sep-18	-	173,800	9	28,356	1,168	10,115
Oct-18	-	173,800	364	28,720	1,225	11,341
Nov-18	-	173,800	95	28,815	1,276	12,617
Dec-18	-	173,800	51	28,865	1,321	13,938
Jan-19	-	173,800	8	28,873	1,357	15,295
Feb-19	-	173,800	90	28,963	1,386	16,681
Mar-19	-	173,800	40	29,003	1,405	18,085
Apr-19	-	173,800	1,147	30,150	1,415	19,500
May-19	-	173,800	121	30,271	1,415	20,915
Jun-19	-	173,800	444	30,715	1,405	22,319
Jul-19	-	173,800	202	30,917	1,386	23,705
Aug-19	-	173,800	5	30,922	1,357	25,062
Sep-19	-	173,800	8	30,929	1,321	26,383
Oct-19	-	173,800	186	31,115	1,276	27,659
Nov-19	-	173,800	126,911	158,026	1,863	29,523
Dec-19	-	173,800	559	158,584	1,928	31,451
Jan-20	-	173,800	1	158,586	1,998	33,448
Feb-20	-	173,800	222	158,808	1,975	35,424
Mar-20	-	173,800	385	159,193	2,060	37,484
Apr-20	33,000	206,800	1,304	160,497	2,054	39,538
May-20	-	206,800	1	160,498	1,987	41,525
Jun-20	-	206,800	283	160,781	1,930	43,455
Jul-20	-	206,800	2,774	163,555	2,494	45,949
Aug-20	-	206,800	190	163,746	5,916	51,865
Sep-20	-	206,800	23,219	186,964	6,159	58,024

PROJECT SPENDING PLAN

PROJECT : Medical Center Addition/Alteration, NSA Bethesda MD

All costs in thousands ($000)

	FUNDING		OBLIGATIONS		OUTLAYS	
Month - Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
Oct-20	-	206,800	726	187,690	6,413	64,437
Nov-20	-	206,800	3,228	190,918	6,675	71,112
Dec-20	-	206,800	2,598	193,516	6,946	78,058
Jan-21	80,000	286,800	155	193,670	2,265	80,323
Feb-21	-	286,800	647	194,317	4,599	84,922
Mar-21	-	286,800	479	194,796	3,356	88,277
Apr-21	-	286,800	51,223	246,019	3,431	91,708
May-21	-	286,800	448	246,467	108	91,816
Jun-21	-	286,800	38	246,505	205	92,021
Jul-21	-	286,800	4,298	250,803	15,674	107,695
Aug-21	-	286,800	20	250,823	12,919	120,614
Sep-21	-	286,800	10,046	260,869	2,429	123,043
Oct-21	-	286,800	26	260,895	4,871	127,914
Nov-21	-	286,800	949	261,843	13,628	141,542
Dec-21	-	286,800	2,066	263,909	8,331	149,873
Jan-22	-	286,800	1,228	265,137	15,393	165,266
Feb-22	-	286,800	4,040	269,177	12,350	177,616
Mar-22	-	286,800	4,040	273,217	12,528	190,144
Apr-22	153,233	440,033	157,273	430,490	12,690	202,834
May-22	-	440,033	4,040	434,529	12,837	215,671
Jun-22	-	440,033	122	434,652	12,968	228,639
Jul-22	-	440,033	122	434,774	13,081	241,720
Aug-22	-	440,033	122	434,896	13,177	254,896
Sep-22	-	440,033	122	435,019	13,254	268,150
Oct-22	-	440,033	122	435,141	13,312	281,462
Nov-22	-	440,033	122	435,263	13,351	294,814
Dec-22	-	440,033	122	435,385	13,371	308,185
Jan-23	75,500	515,533	75,622	511,008	13,371	321,556
Feb-23	-	515,533	122	511,130	13,351	334,907
Mar-23	-	515,533	122	511,252	13,312	348,219
Apr-23	-	515,533	122	511,375	13,254	361,473
May-23	-	515,533	122	511,497	13,177	374,650
Jun-23	-	515,533	122	511,619	13,081	387,731
Jul-23	-	515,533	122	511,742	12,968	400,698
Aug-23	-	515,533	122	511,864	12,837	413,535
Sep-23	-	515,533	122	511,986	12,690	426,226

PROJECT SPENDING PLAN

PROJECT : Medical Center Addition/Alteration, NSA Bethesda MD

All costs in thousands ($000)

	FUNDING		OBLIGATIONS		OUTLAYS	
Month - Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
Oct-23	-	515,533	122	512,109	12,528	438,753
Nov-23	-	515,533	122	512,231	12,350	451,104
Dec-23	-	515,533	122	512,353	12,160	463,263
Jan-24	179,467	695,000	179,589	691,942	11,957	475,220
Feb-24	-	695,000	130	692,072	11,742	486,962
Mar-24	-	695,000	122	692,194	11,518	498,480
Apr-24	-	695,000	122	692,316	11,284	509,764
May-24	-	695,000	122	692,438	11,042	520,806
Jun-24	-	695,000	122	692,560	10,794	531,601
Jul-24	-	695,000	122	692,682	10,541	542,142
Aug-24	-	695,000	122	692,804	10,284	552,426
Sep-24	-	695,000	122	692,926	10,023	562,449
Oct-24	-	695,000	122	693,048	9,761	572,210
Nov-24	-	695,000	122	693,170	9,498	581,709
Dec-24	-	695,000	122	693,292	9,236	590,945
Jan-25	-	695,000	122	693,414	8,975	599,920
Feb-25	-	695,000	122	693,536	8,717	608,636
Mar-25	-	695,000	122	693,658	8,462	617,098
Apr-25	-	695,000	122	693,780	8,211	625,309
May-25	-	695,000	122	693,902	7,965	633,273
Jun-25	-	695,000	122	694,024	7,725	640,998
Jul-25	-	695,000	122	694,146	7,491	648,489
Aug-25	-	695,000	122	694,268	7,264	655,752
Sep-25	-	695,000	122	694,390	7,044	662,796
Oct-25	-	695,000	122	694,512	6,832	669,628
Nov-25	-	695,000	122	694,634	6,628	676,255
Dec-25	-	695,000	122	694,756	6,432	682,688
Jan-26	-	695,000	122	694,878	6,245	688,933
Feb-26	-	695,000	122	695,000	6,067	695,000

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (DHA)		MAR 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
Joint Base San Antonio (Lackland) Texas	Air Education and Training	0.89

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 20190830	59	503	87	0	0	0	3	79	32	763
b. END FY 2025	59	501	89	0	0	0	3	79	32	763

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	45,641.00
b. INVENTORY TOTAL AS OF 20201203	559,251.00
c. AUTHORIZATION NOT YET IN INVENTORY	61,776.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	58,600.00
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	679,627.00

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST *($000)*	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
55010	Ambulatory Care Center Replacement (Dental)	59,609 SF	58,600	APR 2021	JAN 2022

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

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 Organization Mission Partners, that accomplish diverse training, flying, cyber, intelligence, medical, and installations missions every day.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. Component DEF (DHA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**	2. Date MAR 2022
3. Installation and Location/UIC: Joint Base San Antonio (Lackland) Texas	4. Project Title: Ambulatory Care Center Replacement (Dental)	

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
87717DHA	54010	93799	58,600

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				39,893
Dental Clinic CATCODE 54010	SF	59,609	640	(38,150)
Emergency Generator (81160)	LS	--	--	(243)
SDD, EPAct, Renewable Energy	LS	--	--	(667)
Cyber Security Measures	LS	--	--	(833)
SUPPORTING FACILITIES				10,242
Electric Service	LS	--	--	(375)
Water, Sewer, Gas	LS	--	--	(406)
Parking/Paving, Walks, Curbs and Gutters	LS	--	--	(1,826)
Storm Drainage	LS	--	--	(619)
Site Imp (1,111) Demo/HazMat (2,596)	LS	--	--	(3,707)
Information Systems	LS	--	--	(1,221)
Antiterrorism Measures	LS	--	--	(20)
Special Foundations	LS	--	--	(214)
EISA 2007 Section 438 (Low Impact Development)	LS	--	--	(445)
Other (O&M Manuals, CID, DDC, and Enhanced Commissioning, Utility Connection Fee)	LS	--	--	(1,409)
ESTIMATED CONTRACT COST				50,135
CONTINGENCY PERCENT (5.00%)				2,507
SUBTOTAL				52,642
SUPERVISION, INSPECTION & OVERHEAD (5.70%)				3,001
DESIGN/BUILD DESIGN-DESIGN COST (6.0%)				3,008
TOTAL REQUEST				58,651
TOTAL REQUEST (ROUNDED)				58,600
INSTALLED EQT-OTHER APPROPRIATIONS				(13,991)

10. Description of Proposed Construction:
Construct a two-story replacement Dental Clinic serving assigned base personnel as well as Air Force (AF) basic recruit and technical school trainees and directly supporting three advanced Graduate Dental Education residency programs. Supporting facilities include utilities, site improvements, parking, signage, antiterrorism/force protection measures, and environmental protection measures. The existing dental clinic building 6418 will be demolished. Project will be designed by Unified Facilities Criteria (UFC) 4-510-01 Design standards, Military Medical Facilities, UFC 1-200-02 High Performance and Sustainable Building as well as UFC 4-010-01 DoD Minimum Antiterrorism Standards for Buildings, UFC 4-010-06 Cybersecurity of Facility-Related Control Systems, barrier-free design in accordance with Architectural Barriers Act (ABA) Accessibility Standard and DEPSECDEF Memorandum "Access for People with Disabilities" dated 10/31/2008, and MHS World Class principles per World Class Checklist Requirements. Operations and Maintenance Manuals, Comprehensive Interior Design, Design During Construction, and Enhanced Commissioning will be provided.

11. REQ: 115,224 SF ADQT: 55,615 SF SUBSTD: 50,681 SF

PROJECT:
Construct a two-story Dental Clinic Replacement to deliver dental readiness and oral health for 17,000 base personnel, 36,000 Air Force basic trainees, and 28,000 technical school trainees under five USAF Wings

1. Component DEF (DHA)	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. Date MAR 2022
3. Installation and Location/UIC: Joint Base San Antonio (Lackland) Texas	4. Project Title: Ambulatory Care Center Replacement (Dental)	

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
87717DHA	54010	93799	58,600

PROJECT (Continued):
operating at JBSA-Lackland. Dunn Dental Clinic provides an Advanced Education General Dentistry two-year residency program and AF Oral Hygiene Course (CURRENT MISSION)

REQUIREMENT:
Construct a modern replacement dental clinic capable of supporting world class dental care for assigned base active-duty population, basic recruit training, technical schools, and Advanced Graduate Dental Education.

CURRENT SITUATION:
Existing clinic constructed in 1980 is space constrained with obsolete infrastructure and highly inefficient dental treatment and support spaces. Shortfalls of adequate space prevents approved expansion of eight Advanced Dental Education post-graduate residencies in FY 2021. Obsolete dental systems require constant repairs and degrade the ability of dentists and oral hygiene technicians to deliver world class care. Current lack of dedicated learning spaces in dental laboratories constrains effective advanced training for Comprehensive Dentistry residents. Undersized dental treatment rooms create a crowded training environment and significantly degrade the mission goals for delivering world class dental care.

IMPACT IF NOT PROVIDED:
Space constrained and functionally obsolete treatment areas will continue to impede delivery of modern dental care and training. Approved expansion of graduate dental education programs to consolidate USAF advanced dental residency programs in FY 2020 will be seriously degraded due to space shortfalls and obsolete infrastructure. Existing facility limitations will continue to mitigate against efforts to provide cost effective modernization required to provide modern treatment and advanced practicum training spaces. Operational and maintenance costs for obsolete dental infrastructure which has exceeded useful economic life will continue to impair the ability to deliver modern, cost effective patient dental care and advanced dental education.

ADDITIONAL:
This submission is supported by an economic analysis. The site is not within a 100 year flood plain.

The DoD Facilities Pricing Guide, UFC 3-701-01, Change 8, dated 3 Feb 2021 did not publish a unit cost of construction for a dental clinic.

JOINT USE CERTIFICATION:
The Chief, Defense Health Agency, Facilities Enterprise has reviewed this project for joint use potential. Joint use construction is recommended.

12. Supplemental Data:

A. Estimated Execution Data	
(1) Acquisition Strategy:	Design Build
(2) Design Data:	
(a) Request for Proposal (RFP) Started:	APR/2021
(b) Percent of Design Completed as of Jan 2022:	35%
(c) Request for Proposal Complete:	Jan/2022
(d) Total Design Cost ($000):	3,160
(e) Energy Studies and/or Life Cycle Analysis Performed:	No
(f) Standard or definitive design used?	No

1. Component DEF (DHA)	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. Date MAR 2022
3. Installation and Location/UIC: Joint Base San Antonio (Lackland) Texas	4. Project Title: Ambulatory Care Center Replacement (Dental)	

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
87717DHA	54010	93799	58,600

Supplemental Data (Continued):

(3) Construction Data:

(a) Contract Award: MAR/2023

(b) Construction Start: SEP/2023

(c) Construction Complete: SEP/2026

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

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Expense	OM	2024	3,113
Expense	OM	2025	4,863
Investment	Procurement	2025	576
Expense	OM	2026	4,863
Investment	Procurement	2026	576

Chief, Design, Construction & Activation Office:
Phone Number: 703-275-6077

DD FORM 1391C, JUL 1999

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (DHA)		MAR 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
Germany Various, Germany	US Army Installation Management Command	0.99

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 20191031	0	0	0	0	0	0	0	0	0	0
b. END FY 2025	0	0	0	0	0	0	0	0	0	0

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	114,032.00
b. INVENTORY TOTAL AS OF 20210930	27,842,885.00
c. AUTHORIZATION NOT YET IN INVENTORY	3,227,015.00
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	0.00
h. GRAND TOTAL	31,069,900.00

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST *($000)*	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
51010	Medical Center Replacement, Incr 10	LS	299,790	NOV 2010	JUL 2022
51010	Medical Center Replacement, Incr 11	LS	77,210	NOV 2010	JUL 2022

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

Installations support US Army, Europe and Seventh Army (USAREUR), a trained and ready force capable of rapid responding and operating jointly in support of US EUCOM theater strategy. Installations serve as bases for projecting power in and out of EUCOM areas of responsibility by providing facilities for training, maintaining, housing, and supporting subordinate and supporting units/organizations. These units consist of combat support, and combat service support tactical units as well as theater, mission, installation support, and quality of life organizations required to maintain a trained and ready force oversees.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

DD FORM 1390, JUL 1999

1. Component DEF (DHA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**			2. Date MAR 2022
3. Installation and Location: Rhine Ordnance Barracks, Germany		4. Project Title: Medical Center Replacement, Increment 10		
5. Program Element 87717DHA	6. Category Code 51010	7. Project Number 101024	8. Project Cost ($000) Approp 299,790	

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				1,118,298
Medical Center/Hospital (33,082 SM)	SF	356,091	829	(295,248)
Medical Clinic (36,659 SM)	SF	394,594	823	(325,058)
Administrative Facility (12,455 SM)	SF	134,061	673	(90,232)
Medical Warehouse (9,070 SM)	SF	97,631	582	(56,836)
Ambulance Garage (283 SM)	SF	3,045	546	(1,665)
Canopies (733 SM)	SF	7,890	547	(4,321)
Special Foundations (37,959 SM)	SF	408,587	31	(12,790)
Service Basement (20,638 SM)	SF	222,146	348	(77,457)
Parking Structures	SP	1,642	19,854	(32,600)
Central Utility Plant	LS	--	--	(57,799)
Communication Center Alterations (Bldgs 711 & 164)	LS	--	--	(3,031)
Bridge and Road Improvements	LS	--	--	(10,633)
Access Control Point Facility	LS	--	--	(24,393)
World Class Design	LS	--	--	(17,010)
SDD & EPAct05, EISA2007, and Renewable Energy	LS	--	--	(36,102)
Building Information Systems	LS	--	--	(39,865)
Antiterrorism Measures	LS	--	--	(33,258)
SUPPORTING FACILITIES				270,300
Electric Service	LS	--	--	(36,681)
Water, Sewer, Gas	LS	--	--	(17,738)
Steam and/or Chilled Water Distribution	LS	--	--	(4,844)
Paving, Walks, Curbs and Gutters	LS	--	--	(15,564)
Storm Drainage	LS	--	--	(27,439)
Site Improvement (24,522) Demo (1,686)	LS	--	--	(26,208)
Information Systems	LS	--	--	(5,479)
Antiterrorism Measures	LS	--	--	(10,773)
Environmental Compensation	LS	--	--	(16,214)
Environmental Landfill Remediation	LS	--	--	(3,471)
Other (O&M Manuals, CID, DDC and Enhanced Commissioning)	LS	--	--	(105,889)
ESTIMATED CONTRACT COST				1,388,598
CONTINGENCY PERCENT (5.00%)				69,430
SUBTOTAL				1,458,028
SUPERVISION, INSPECTION & OVERHEAD (6.50%)				94,772
CATEGORY E EQUIPMENT				37,200
TOTAL REQUEST				1,590,000
TOTAL REQUEST (ROUNDED)				1,590,000
PREVIOUS APPROPRIATIONS				1,213,000
CURRENT APPROPRIATION REQUEST (ROUNDED)				299,790
FUTURE APPROPRIATION REQUEST				77,210
INSTALLED EQT-OTHER APPROPRIATIONS				(209,979)

DD FORM 1391, JUL 1999

1. Component DEF (DHA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MAR 2022
3. Installation and Location: Rhine Ordnance Barracks, Germany		4. Project Title: Medical Center Replacement, Increment 10	
5. Program Element 87717DHA	6. Category Code 51010	7. Project Number 101024	8. Project Cost ($000) Approp 299,790

10. Description of Proposed Construction:
Fund the tenth increment of a multi-story Medical Center to replace the Landstuhl Regional Medical Center and the 86th Medical Group (MDG) Clinic. The Hospital will provide inpatient services with contingency expansion, outpatient and specialty care clinics, Aero Medical Staging Facility (ASF), support functions, medical administration, and sub-basement zones. Ancillary facilities include ambulance garage, parking garage, central energy plant, helicopter pad, and road improvements. Supporting facilities include: contingency utilities and laydown area, site improvements, surface parking, access roads, Communications Building alteration, bridge and road improvements, access control point facilities, demolition and site clearance of former ordnance storage area and environmental protection and mitigation. The existing Landstuhl Regional Medical Center and the existing 86th MDG facilities will be returned to respective installations for other uses except for Blood Donor Center, contingency and bulk storage logistics will remain on Landstuhl. The project will be designed in accordance with the criteria prescribed in Unified Facilities Criteria UFC 4-510-01, DoD Minimum Antiterrorism Standards for Buildings UFC 4-010-01, barrier-free design in accordance with DoD, "ABA (Architectural Barriers Act) Accessibility Standard" and DEPSECDEF Memorandum "Access for People with Disabilities" dated 10/31/2008, Evidence Based Design principles, MHS World Class Checklist Requirements, Executive Order 13514, DoD Strategic Sustainability Performance Plan (SSPP), the Energy Policy Act of 2005 (EAPct05), and in accordance with the host nation Status of Forces Agreement (SOFA). The project will be LEED Healthcare Silver certifiable. Operation and Maintenance Manuals, Design During Construction, Enhanced Commissioning, and Comprehensive Interior Design will be provided.

11. REQ: 1,119,799 SF ADQT: 69,180 SF SUBSTD: 819,908 SF

PROJECT:
Construct a replacement Medical Center incorporating an 86th MDG Clinic replacement at Rhine Ordnance Barracks, Germany. (CURRENT MISSION)

REQUIREMENT:
A replacement Medical Center is required to provide direct medical services to 53,000 enrolled beneficiaries and tertiary referral support for more than 245,000 beneficiaries throughout EUCOM as well as contingency casualty evacuation support for up to an additional 250,000 soldiers, airmen & sailors deployed throughout the regions comprising the Areas of Responsibility (AOR) of EUCOM, CENTCOM and AFRICOM.

The mission requires the provision of medical, surgical, and intensive care services, as well as primary and specialty care, emergency/trauma care, dental services and medical proficiency training simulation capability. The current Medical Center provides the only DoD inpatient psychiatric, pediatric specialty care, and substance abuse rehabilitation unit in Europe.

Of equal - and in contingencies - greater importance, the mission requires that it serve as the primary medical facility for the evacuation hub for U.S. service members stationed throughout the EUCOM, CENTCOM and AFRICOM AORs. The medical facility must be strategically located in the immediate vicinity of Ramstein Air Base, to minimize travel times from the flight line to the facility and, therefore, the risks to air evacuated wounded and ill warriors. In support of the contingency mission, the existing Medical Center treats an average of 8,000 aero medical evacuation patients per year including 15% battle-related casualties.

CURRENT SITUATION:
The existing Medical Center is located approximately 13 km (8 miles) from Ramstein Air Base. Most of the route is on an unsecured civilian autobahn and public roads. The total time required to transport critically wounded troops from the airfield to treatment currently varies from 20 to 45 minutes depending on traffic and weather conditions. The existing

1. Component DEF (DHA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MAR 2022
3. Installation and Location: Rhine Ordnance Barracks, Germany		4. Project Title: Medical Center Replacement, Increment 10	
5. Program Element 87717DHA	6. Category Code 51010	7. Project Number 101024	8. Project Cost ($000) Approp 299,790

CURRENT SITUATION (Continued):
Medical Center care areas are located in 22 cantonment "finger" buildings built between 1951 and 1953 and a critical care tower built in 1983. Additional activities, such as preventive medicine, logistics, the blood donor center, education and training, and the dental clinic are located in buildings external to the medical center. The multiple "finger" buildings and central circulation corridor are more than 50 years old. The current layout is inefficient, covers almost 3.5 miles of corridors and hallways, and is not capable of supporting modern medical practices. The current conditions pose concerns for patient and staff safety related to lack of single patient rooms, undersized operating rooms, infection control, patient privacy, and excessive travel distances between clinical activities. The buildings have significant deficiencies related to building systems, building integrity and code compliance.

Building infrastructure (electrical, mechanical, and communication) has exceeded ranges of useful life and is costly to sustain, restore, and modernize given the spans of distribution systems along the central spine. The floors in many of the cantonment buildings are failing.

The 86th Medical Group is in multiple aging facilities, some of which are modular structures. Serious life safety criteria and code deficiencies exist in these 50+ year old structures. Combustible construction, to include bamboo plaster substrate is located throughout the main clinic structure and the clinic does not have sprinklers. The permanent facilities have numerous load bearing walls, making renovation of the space unfeasible. The limited floor to floor height prohibits normal heating, ventilating and conditioning systems (HVAC) required to meet DoD criteria. The MDG campus is located in a congested area of Ramstein AB and does not come close to meeting the force protection requirements for setbacks from parking and roadways. There is inadequate space to add to and renovate the existing structures to provide a consolidated location for medical care.

IMPACT IF NOT PROVIDED:
Healthcare for warriors and their family members will be provided in inefficient, dysfunctional cantonment facilities that have exceeded their useful life and are currently in very poor condition. Accordingly, health care for the enrolled beneficiaries, the other beneficiaries in Europe and the deployed warriors in the EUCOM, CENTCOM and AFRICOM Areas of Responsibility will continue in an inadequate environment. Life support systems will be compromised; fire and life safety standards will only be met on the margins; and patient flow will continue to be dysfunctional. Failure to invest in this project will perpetuate a host of problems that put at risk the safety of both patients and staff, including: the shored-up cantonment buildings, presenting a real and increasing possibility of a catastrophic facility-related failure.

JOINT USE CERTIFICATION:
The Director, Defense Health Agency, Facilities Division has reviewed this project for joint use potential. Joint use construction is recommended.

12. Supplemental Data:

A. Estimated Execution Data

(1) Acquisition Strategy:	Design Bid Build (Host Nation)
(2) Design Data:	
(a) Design Start Date:	NOV/2010
(b) Percent of Design Completed as of JAN 2022 :	60%
(c) Design Complete:	JUL/2022
(d) Total Design Cost:	135,000
(e) Energy Study and/or Life Cycle Analysis performed:	Yes

1. Component DEF (DHA)	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. Date MAR 2022

3. Installation and Location:	4. Project Title:
Rhine Ordnance Barracks, Germany	Medical Center Replacement, Increment 10

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
87717DHA	51010	101024	Approp 299,790

Supplemental Data (Continued):

(f) Standard or definitive design used:	No
(3) Construction Data:	
(a) Construction Award:	MAR/2012
(b) Construction Start:	DEC/2013
(c) Construction Complete:	SEP/2027
(4) Facility Condition Index:	74

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

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Expense	OM	2016	1,651
Expense	OM	2019	2,188
Expense	OM	2020	182
Expense	OM	2021	105
Expense	OM	2022	853
Expense	OM	2023	626
Expense	OM	2024	18,324
Expense	OM	2025	18,324
Expense	OM	2026	43,056
Investment	OP	2026	12,593
Expense	OM	2027	42,906
Investment	OP	2027	12,593
Expense	OM	2028	42,900
Investment	OP	2028	12,600
Expense	OM	2029	534
Expense	OM	2030	544

C. FUNDING PROFILE:

	Authorization ($000)	Auth of Approp ($000)	Approp ($000)
FY 2012 Enacted*	$990,000	$70,592	$70,333
FY 2013 Enacted	-----	$127,000	$117,041
FY 2014 Enacted	-----	$76,545	$66,545
FY 2015 Enacted	-----	$189,695	$189,695
FY 2016 Enacted	-----	$85,034	$85,034
FY 2017 Enacted	-----	$58,063	$58,063
Cost Variation FEB 2018	$23,000	-----	-----
FY 2018 Enacted	-----	$106,700	$106,700
FY 2019 Enacted	-----	$319,589	$319,589
Cost Variation JAN 2020	$200,000	-----	-----
Cost Variation DEC 2021	$377,000	-----	-----
FY 2021 Enacted	-----	$200,000	$200,000

1. Component DEF (DHA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MAR 2022
3. Installation and Location: Rhine Ordnance Barracks, Germany		4. Project Title: Medical Center Replacement, Increment 10	
5. Program Element 87717DHA	6. Category Code 51010	7. Project Number 101024	8. Project Cost ($000) Approp 299,790

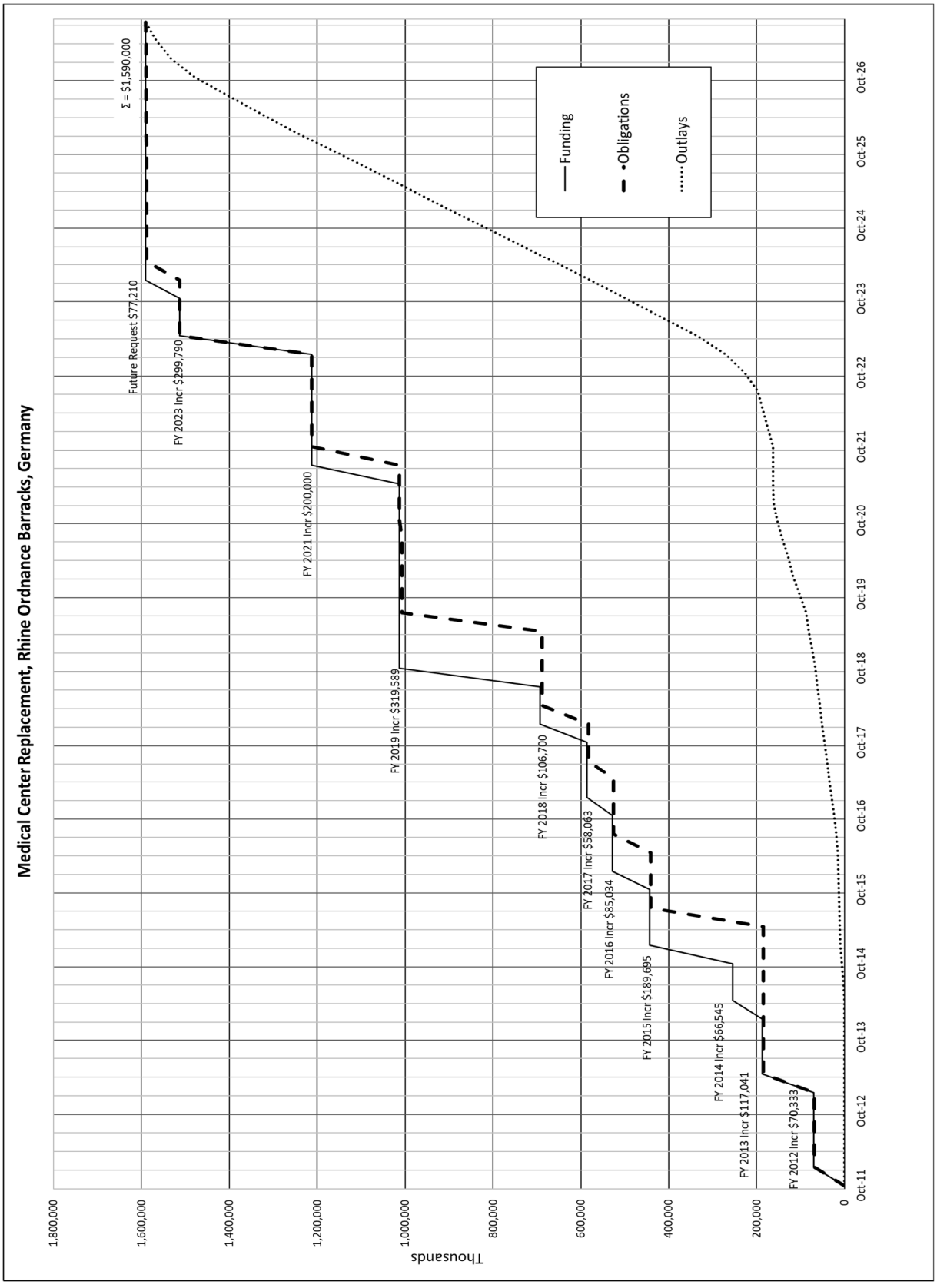
C. FUNDING PROFILE (Continued):

	Authorization ($000)	Auth of Approp ($000)	Approp ($000)
FY 2023 Budget Request	-----	$299,790	$299,790
Future Request	-----	$77,210	$77,210
Total	$1,590,000	---------	$1,590,000

*NDAA 2012's AUTH was increased from $750,000,000 to $990,000,000 in NDAA 2013.

Chief, Design, Construction & Activation Office:
Phone Number: 703-275-6077

DD FORM 1391C, JUL 1999


Medical Center Replacement, Rhine Ordnance Barracks, Germany
Σ = $1,590,000
Future Request $77,210
FY 2023 Incr $299,790
FY 2021 Incr $200,000
FY 2019 Incr $319,589
FY 2018 Incr $106,700
FY 2017 Incr $58,063
FY 2016 Incr $85,034
FY 2015 Incr $189,695
FY 2014 Incr $66,545
FY 2013 Incr $117,041
FY 2012 Incr $70,333
Funding
Obligations
Outlays
Thousands
1,800,000
1,600,000
1,400,000
1,200,000
1,000,000
800,000
600,000
400,000
200,000
0
Oct-11
Oct-12
Oct-13
Oct-14
Oct-15
Oct-16
Oct-17
Oct-18
Oct-19
Oct-20
Oct-21
Oct-22
Oct-23
Oct-24
Oct-25
Oct-26

PROJECT SPENDING PLAN

PROJECT: Medical Center Replacement, Rhine Ordnance Barracks, Germany

All costs in thousands ($000)

Month	FUNDING		OBLIGATIONS		OUTLAYS	
Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
Oct-11	-	-	-	-	-	-
Jan-12	70,333	70,333	70,333	69,333	-	-
Apr-12	-	70,333	-	69,333	-	-
Jul-12	-	70,333	-	69,333	-	-
Oct-12	-	70,333	-	69,333	-	-
Jan-13	-	70,333	-	69,333	-	-
Apr-13	117,041	187,374	117,041	185,374	47	47
Jul-13		187,374		185,374	47	94
Oct-13	-	187,374	-	185,374	64	158
Jan-14	-	187,374	-	185,374	47	205
Apr-14	66,545	253,919	-	185,374	815	1,020
Jul-14		253,919	-	185,374	1,285	2,305
Oct-14	-	253,919	-	185,374	4,542	6,847
Jan-15	189,695	443,614	-	185,374	3,441	10,288
Apr-15	-	443,614	-	185,374	870	11,157
Jul-15	-	443,614	256,240	441,614	848	12,006
Oct-15	-	443,614	-	441,614	846	12,852
Jan-16	85,034	528,648	-	441,614	1,477	14,328
Apr-16	-	528,648	-	441,614	1,667	15,995
Jul-16	-	528,648	85,034	525,648	3,527	19,522
Oct-16		528,648	-	525,648	4,387	23,909
Jan-17	58,063	586,711	-	525,648	5,715	29,624
Apr-17	-	586,711	-	525,648	5,201	34,825
Jul-17	-	586,711	58,063	582,711	5,521	40,346
Oct-17	-	586,711	-	582,711	5,751	46,097
Jan-18	106,700	693,411	-	582,711	5,295	51,392
Apr-18	-	693,411	106,700	688,411	5,129	56,521
Jul-18	-	693,411	-	688,411	5,014	61,535
Oct-18	319,589	1,013,000	-	688,411	4,958	66,493
Jan-19	-	1,013,000	-	688,411	7,500	73,993
Apr-19	-	1,013,000	-	688,411	7,233	81,226
Jul-19	-	1,013,000	319,589	1,007,000	6,388	87,613
Oct-19	-	1,013,000	-	1,007,000	15,304	102,917
Jan-20	-	1,013,000	-	1,007,000	14,854	117,771
Apr-20	-	1,013,000	-	1,007,000	10,238	128,009
Jul-20	-	1,013,000	-	1,007,000	13,551	141,560
Oct-20	-	1,013,000	-	1,013,000	12,038	153,598
Jan-21	-	1,013,000	-	1,013,000	8,562	162,161
Apr-21	-	1,013,000	-	1,013,000	427	162,587
Jul-21	200,000	1,213,000	200,000	1,213,000	583	163,170

PROJECT SPENDING PLAN

PROJECT: Medical Center Replacement, Rhine Ordnance Barracks, Germany

All costs in thousands ($000)

Month	FUNDING		OBLIGATIONS		OUTLAYS	
Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
Oct-21	-	1,213,000	200,000	1,213,000	226	163,396
Jan-22	-	1,213,000	-	1,213,000	10,698	174,095
Apr-22	-	1,213,000	-	1,213,000	11,637	185,732
Jul-22	-	1,213,000	-	1,213,000	12,134	197,865
Oct-22	-	1,213,000	-	1,213,000	30,092	227,957
Jan-23	299,790	1,213,000	-	1,213,000	43,264	271,222
Apr-23		1,512,790	299,790	1,512,790	63,989	335,210
Jul-23	-	1,512,790	-	1,512,790	82,966	418,176
Oct-23	-	1,512,790	-	1,512,790	79,568	497,743
Jan-24	77,210	1,590,000	-	1,512,790	80,647	578,391
Apr-24	-	1,590,000	75,000	1,587,790	82,735	661,125
Jul-24	-	1,590,000	200	1,587,990	83,181	744,306
Oct-24	-	1,590,000	100	1,588,090	84,321	828,627
Jan-25	-	1,590,000	200	1,588,290	83,761	912,388
Apr-25	-	1,590,000	100	1,588,390	80,848	993,236
Jul-25	-	1,590,000	200	1,588,590	83,712	1,076,948
Oct-25	-	1,590,000	200	1,588,790	84,390	1,161,338
Jan-26	-	1,590,000	200	1,588,990	84,390	1,245,729
Apr-26	-	1,590,000	200	1,589,190	78,698	1,324,426
Jul-26	-	1,590,000	200	1,589,390	77,033	1,401,459
Oct-26	-	1,590,000	200	1,589,590	76,111	1,477,570
Jan-27	-	1,590,000	200	1,589,790	53,775	1,531,345
Apr-27	-	1,590,000	100	1,589,890	34,341	1,565,686
Jul-27	-	1,590,000	200	1,590,090	24,314	1,590,000

Defense Logistics Agency
FY 2023 Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Japan				
Marine Corps Air Station, Iwakuni				
PDI: Bulk Storage Tanks PH1	-	85,000	C	25
Yokota Air Base				
PDI: Bulk Storage Tanks PH1 (Increment 2)	-	44,000	C	29
Total	**-**	**129,000**		

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE
DEFENSE (DLA)		MARCH 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
MARINE CORPS AIR STATION, IWAKUNI, JAPAN	DEFENSE LOGISTICS AGENCY	2.27

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 20170930										0
b. END FY 2022										0

7. INVENTORY DATA *($000)*	
a. TOTAL ACREAGE (acre)	0.00
b. INVENTORY TOTAL AS OF YYYMMDD	0.00
c. AUTHORIZATION NOT YET IN INVENTORY	85,000.00
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	0.00
h. GRAND TOTAL	85,000.00

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST *($000)*	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
41150	PDI: Bulk Storage Tanks PH-1	150,000 BL	85,000	APR 2016	AUG 2022

9. FUTURE PROJECTS

41150	PDI: Bulk Storage Tanks PH-2	160,000 BL	84,000	OCT 2023	JUL 2025

10. MISSION OR MAJOR FUNCTIONS

Marine Corps Air Station Iwakuni is primarily an F/A-18 pilot training and air patrol station. Other types of aircraft also frequent the base and together support security obligation to protect Japan and project power throughout the Pacific. These fuel facilities provide essential storage and distribution systems to support the missions of assigned units and transient aircraft at MCAS Iwakuni, Japan.

Deferred sustainment, restoration, and modernization for fuel facilities at this location is $0.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. COMPONENT DEFENSE (DLA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**	2. Date MARCH 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
MARINE CORPS AIR STATION, IWAKUNI, JAPAN	PDI: BULK STORAGE TANKS PH 1

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0701111S	41150	DESC1803	85,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST
PRIMARY FACILITIES				**$ 56,913**
BULK TANKS (CC 41150)	BL	150,000	$ 361.71	$ 54,256
PIPING (CC 12521)	LF	6,050	$ 439.17	$ 2,657
SUPPORTING FACILITIES				**$ 14,760**
SITE IMPROVEMENTS AND DEMOLITION	LS			$ 13,782
CIVIL & ELECTRICAL UTILITIES	LS			$ 978
SUBTOTAL				**$ 71,673**
CONTINGENCY (10.00%)				$ 7,167
TOTAL CONTRACT COST				**$ 78,840**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH)			6.50%	$ 5,125
ENGINEERING DESIGN DURING CONSTRUCTION				$ 1,000
TOTAL REQUEST				**$ 84,965**
TOTAL REQUEST (ROUNDED)				$ 85,000
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				**$ 5,206**

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct three new 50,000-barrel above ground jet fuel storage tanks with sufficient secondary containment. Provide new transfer piping, valves, manifolds and related appurtenances from the new tanks to the existing pump house. Demolish three existing 10,000- barrel aboveground tanks, secondary containment and associated piping and apparatuses. Provide all supporting civil, mechanical and electrical utilities to include but not limited to, automatic tank gauging, electrical service, lighting, communications, cathodic protection, fire protection, drainage, access roads, sidewalks, gates, and landscaping. In addition, incorporate deep soil mixing or provide pile type foundations to improve soil bearing capacity.

1. COMPONENT DEFENSE (DLA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MARCH 2022
3. INSTALLATION AND LOCATION MARINE CORPS AIR STATION, IWAKUNI, JAPAN		4. PROJECT TITLE: PDI: BULK STORAGE TANKS PH 1	
5. PROGRAM ELEMENT 0701111S	6. CATEGORY CODE 41150	7. PROJECT NUMBER DESC1803	8. PROJECT COST ($000) 85,000

11. REQUIREMENT: 911,000 Barrel (BL) **ADQT:** 0 BL **SUBSTD:** 310,000 BL

PROJECT: Construct new aboveground jet fuel bulk storage tanks. (C)

REQUIREMENT: There is a need to provide additional jet fuel storage capacity at this location to support strategic enroute refueling operations, strategic airlift, and force projection in the Pacific. Bulk tanks will store the war reserve jet fuel required to sustain contingency operations pending resupply by tanker ships. This system will also permit more economical fuel resupply and reduce the number of resupply cycles to support the Air Station's requirements.

CURRENT SITUATION: Current fuel storage at MCAS Iwakuni is approximately 34% of the necessary overall combined service requirements.

IMPACT IF NOT PROVIDED: If this project is not accomplished, MCAS Iwakuni will continue to function with insufficient jet fuel storage to meet contingency requirements. The ripple effect of backing-up requirements at other PACOM locations due to insufficient storage impacts the overall storage capabilities throughout PACOM.

ADDITIONAL: Land at MCAS Iwakuni is extremely limited due to existing development. The best option to gain additional tank storage is to replace some existing tanks with larger capacity tanks and construct new tanks in the existing fuel storage areas. The economic analysis and a MCAS Iwakuni Petroleum Oil Lubricants (POL) Integration and Synchronization Study supports this option to gain additional storage capacity. The layouts of the tanks in the new or updated containment areas will meet NFPA requirements that allow bulk fuel tanks to share common secondary containment areas. This project will meet all applicable DoD criteria to include cyber-security.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design/Bid/Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	APR 2016
(b) Percent of Design Completed as of January 2022:	35%
(c) Design or RFP Complete:	AUG 2022
(d) Total Design Cost ($000):	$4,997
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used:	No
(3) Construction Data:	
(a) Contract Award:	AUG 2023
(b) Construction Start:	DEC 2023
(c) Construction Complete:	DEC 2025

1. COMPONENT DEFENSE (DLA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MARCH 2022
3. INSTALLATION AND LOCATION MARINE CORPS AIR STATION, IWAKUNI, JAPAN		4. PROJECT TITLE: PDI: BULK STORAGE TANKS PH 1	
5. PROGRAM ELEMENT 0701111S	6. CATEGORY CODE 41150	7. PROJECT NUMBER DESC1803	8. PROJECT COST ($000) 85,000

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

Equipment Nomenclature	Procuring Appropriation	FY Appropriated of Requested	Cost ($000)
Automatic Tank Gauging	DWCF	2024	227
Contaminated Soil Removal	DWCF	2024	4,979

C. Title, Authorization and Appropriation Summary:

FY 2018 Title is "Bulk Storage Tanks Ph 1"
FY 2023 Proposed Title Change is "PDI: Bulk Storage Tanks PH1"

	Authorization ($000)	Auth of Approp ($000)	Approp ($000)
FY 2018 Enacted	30,800	30,800	30,800
Reallocated to 10 USC 2808 projects	------	------	(30,800)
Cost Variation April 2022	54,200	------	------
FY 2023 Budget Request	-------	85,000	85,000
Total	85,000	-------	85,000

Point of Contact is DLA Civil Engineer at 571-767-0631

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE
DEFENSE (DLA)		MARCH 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
YOKOTA AIR BASE, JAPAN	DEFENSE LOGISTICS AGENCY	2.09

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 20170930										0
b. END FY 2022										0

7. INVENTORY DATA *($000)*	
a. TOTAL ACREAGE (acre)	0.00
b. INVENTORY TOTAL AS OF YYYMMDD	0.00
c. AUTHORIZATION NOT YET IN INVENTORY	116,305.00
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	0.00
h. GRAND TOTAL	116,305.00

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST *($000)*	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
411320	PDI: Bulk Storage Tanks Ph-1 Inc 2	100,000 BL	44,000	DEC 2017	NOV 2021

9. FUTURE PROJECTS

411320	PDI: Bulk Storage Tanks Ph-1 Inc 3	100,000 BL	22,305		

10. MISSION OR MAJOR FUNCTIONS

Yokota Air Base, Japan is located approximately 20 miles west of Tokyo, Japan. The host unit is the 374th Airlift Wing which is assigned to the Fifth Air Force (5 AF) of the United States Air Force Pacific Air Forces (PACAF). The 374th Operations Group contains the 36th Airlift Squadron (36 AS) and 459th Airlift Squadron (459 AS). Aircraft included in each of these squadrons are the C-130 Hercules, UH-1N Iroquois, and C-12J Hurons. Due to its strategic location and long runway, the Air Base routinely services KC-135 Stratotankers, C-5 Galaxies, KC-10 Extenders, and various other aircraft. The 459th and 36th Airlift Squadrons perform multifaceted missions that include passenger transport, aeromedical evacuation, search and rescue, humanitarian relief, and service and support via airlift and airdrop operations.

Deferred sustainment, restoration, and modernization for fuel facilities at this location is $0.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. COMPONENT DEFENSE (DLA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MARCH 2022
3. INSTALLATION AND LOCATION YOKOTA AIR BASE, JAPAN		4. PROJECT TITLE: PDI: BULK STORAGE TANKS PH-1 (Increment 2)	
5. PROGRAM ELEMENT 0701111S	6. CATEGORY CODE 411320	7. PROJECT NUMBER DESC2103	8. PROJECT COST ($000) 44,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST
PRIMARY FACILITIES				**$ 89,273**
BULK STORAGE TANK (CC 411320))	BL	100,000	$ 502	$ 50,160
FILTER/SEPARATOR BUILDING (CC 121124)	SM	418	$ 68,416	$ 28,598
ADDITIVE INJECTION SYSTEM (124139)	GA	30,550	$ 176	$ 5,373
TRUCK FILL STAND (CC126925)	OL	2	$ 2,571,000	$ 5,142
SUPPORTING FACILITIES				**$ 14,286**
SITE ELECTRICAL UTILITIES	LS			$ 9,400
CIVIL AND MECHANICAL UTILITIES	LS			$ 3,105
SITE PREPARATION AND IMPROVEMENTS	LS			$ 1,100
SPECIAL COSTS	LS			$ 681
SUBTOTAL				**$ 103,559**
CONTINGENCY (5.00%)				$ 5,178
TOTAL CONTRACT COST				**$ 108,737**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH)			6.50%	$ 7,068
ENGINEERING DESIGN DURING CONSTRUCTION				$ 500
TOTAL REQUEST				**$ 116,305**
PREVIOUS APPROPRIATIONS				$ 50,000
FUTURE APPROPRIATION REQUEST				$ 22,305
CURRENT APPROPRIATION REQUEST				$ 44,000
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				**$ 588**

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Eastside Fuel Facility: Construct a 100,000-barrel cut-and-cover JP-8 fuel storage tank, filter building, two-bay truck fill-stand. The new bulk tank contains a pump house with 600-gpm issue vertical turbine pumps an a 50-gpm water draw off vertical turbine pump. The tank includes a high-level valve, independent level alarms, and hardware necessary for the installation of automatic tank gauging (ATG) systems. The tank includes piping, valves, vaults and appurtenances from tanks to filter separator building.

The Filter Building control room will contain new pump control Programmable Logic Controller (PLC) and Human Machine Interface (HMI), automatic tank gauge (ATG) reporting module capable of reporting inputs from all Eastside Fuel Facility tanks. Provide a product saver tank for each bulk tank. The filter building contains 600-gpm issue filter separators, 2400-gpm micronic filters, and 1200-gpm receipt filter separators and backups as needed. Crossover piping between the new and existing filter buildings will

1. COMPONENT DEFENSE (DLA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MARCH 2022
3. INSTALLATION AND LOCATION YOKOTA AIR BASE, JAPAN		4. PROJECT TITLE: PDI: BULK STORAGE TANKS PH-1 (Increment 2)	
5. PROGRAM ELEMENT 0701111S	6. CATEGORY CODE 411320	7. PROJECT NUMBER DESC2103	8. PROJECT COST ($000) 44,000

provide issue capability from any tank to any truck fill stand location. The new filter building, and pump house include fire alarms and transmitters compatible with base's systems, control panel and automatic detection system, and manual pull stations. The filter building includes a plumbing system, control room HVAC, filter room mechanical ventilation, and emergency eyewash/shower.

Expand the existing truck fill stand to add two vehicle bays with metal roof canopy and structural steel framing on a concrete pad. Each fill stand will be capable of loading a R-11 refueler at a rate of 600-gpm. Provide a double wall, underground product recovery tank near the filter building with a recovery pump to return reclaimed fuel back through receipt filtration to bulk storage. The tank will have an ATG system, level alarms, overfill prevention, interstitial monitoring, and a local horn with acknowledgement and visible alarm at a manned location in the filter building and all necessary electrical work including lighting, power, and controls.

ADDITIVE INJECTION SYSTEM FACILITY: Modify Building 4091 at the rail receipt yard to install a new fuel additive injection systems and associated infrastructure within the pump room. Construct a canopy and concrete slab to house the Static Dissipater Additive (SDA) and Corrosion Inhibitor/Lubricity Improver (CI/LI) operational mix tanks, additive storage and a rolled curb delivery vehicle area for truck off-load and spill containment. The additive injector system will mechanically inject Fuel System Icing Inhibitor (FSII), SDA and Cl/LI to convert Jet A-1 to military spec JP-8. Provide appropriately sized and separate tanks for SDA and CI/LI, to mix (dilute) each with jet fuel prior to injection. FSII is injected without any dilution. Install the injectors and a bypass line in Building 4091 connecting to the existing offload pump discharge to allow the fuel to be additized from the rail receipt or truck offload. Provide stainless steel piping from the additive tanks to the injectors to accommodate the direct receipt of JP-8 from the truck or rail offload. Electrical work for the additive injection system facility includes power, lighting, controls, and Supervisory Control and Data Acquisition (SCADA).

SUPPORTING FACILITIES: Electrical utility improvements include transformers, switchgear, relocation of primary electrical and outside plant telecommunications, secondary power distribution, motor control centers, SCADA, telecommunications, area lighting, grounding, lightning protection, standby generator, controls, duct banks and related work.

Site preparation and improvements include demolition and removal of abandoned fuel pipelines and vaults within the tank footprint, site clearing and grubbing, earthwork, access roads, paving, fencing and gates, utility relocations, and landscaping and restoration of existing soil berms. Construction of the cut-and-cover tanks requires significant excavation. Civil and Mechanical utilities include new water and fire hydrants, water lateral connection and a septic system for the filter building, a new pipeline from Building 4091 to Valve Pit B-1 (VPB-1). Rebuild VPB-1 to accommodate additional valves and piping. Install connection points for inline inspection tools (pigs) at VPB-1, Building 4091 and Eastside Fuel Facility. Special Costs include cyber-security measures.

11. REQUIREMENT: 850,000 BARRELS (BL) **ADQT:** 450,000 BL **SUBSTD:** O BL

1. COMPONENT DEFENSE (DLA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MARCH 2022
3. INSTALLATION AND LOCATION YOKOTA AIR BASE, JAPAN		4. PROJECT TITLE: PDI: BULK STORAGE TANKS PH-1 (Increment 2)	
5. PROGRAM ELEMENT 0701111S	6. CATEGORY CODE 411320	7. PROJECT NUMBER DESC2103	8. PROJECT COST ($000) 44,000

PROJECT: Construct cut-and-cover JP-8 bulk storage tanks, filter/separator building, additive injection system, truck fill stand and a train offload transmission main. This phase I project provides 25 percent of the total storage requirement of 4-100k barrel tanks. (C)

REQUIREMENT: Additional fuel storage to extend Pacific region airlift operations; the capability to receive commercial Jet A-1 to comply with new DLA Energy fuel acquisition strategy, and direct fuel transfer capability between the Eastside Fuel and train offload facilities.
CURRENT SITUATION: Yokota Air Base does not have sufficient on-site fuel storage capacity to support extended operational needs required by United States Forces Japan (USFJ). The Yokota fuel supply is supported by off-site fuel storage at Defense Fuel Supply Point (DFSP) Tsurumi. Primary fuel receipt is by rail car and then pumped to the Main Base filter receipt building before transfer into storage. The truck offload positions at the Main Base POL serves as a secondary receipt mode. Fuel is stored at the Eastside Fueling Facility and at the Main Base. The Eastside Fueling Facility has two 100,000-bbl tanks and the Main Base POL Facility has two 100,000-bbl and one 50,000-bbl JP-8 bulk storage tanks. The standard operation is to receive JP-8 into three bulk storage tanks at the Main Base Petroleum Oil Lubricants (POL) facility and then to the Eastside Fueling Facility storage tanks that supplies fuel to the hydrant system tanks. Fuel transfers between the three facilities keeps the fuel circulated and prevents inventory stagnation. Yokota Air Base does not have the ability accept commercially available Jet A-1 fuel nor the ability to store or inject additives in fuel.

IMPACT IF NOT PROVIDED: The Air Base will be less effective and unable to fully support airlift operations during contingency or humanitarian campaigns. The base will be non-compliant with DLA fuel acquisition strategy without the capability to receive and convert the more commonly available Jet A-1 to JP-8 military specifications.

ADDITIONAL: Sustainable engineering principles will be integrated into the design, development, and construction of the project. This facility can be used by other components on an "as available" basis however the project scope is based on Air Force requirements. This project was included in the prior year's future-years defense program.

12. Supplemental Data:

A. Estimated Execution Data:	
(1) Acquisition Strategy:	Design/Bid/Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	DEC 2017
(b) Percent of Design Completed as of January 2022:	95%
(c) Design or RFP Complete:	NOV 2021
(d) Total Design Cost ($000):	5,500
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used:	No
(3) Construction Data:	

1. COMPONENT DEFENSE (DLA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MARCH 2022
3. INSTALLATION AND LOCATION YOKOTA AIR BASE, JAPAN		4. PROJECT TITLE: PDI: BULK STORAGE TANKS PH-1 (Increment 2)	
5. PROGRAM ELEMENT 0701111S	6. CATEGORY CODE 411320	7. PROJECT NUMBER DESC2103	8. PROJECT COST ($000) 44,000

(a) Contract Award: JUN 2022
(b) Construction Start: SEP 2022
(c) Construction Complete: FEB 2025

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

Equipment Nomenclature	Procuring Appropriation	FY Appropriated of Requested	Cost $000)
Fixtures, Furniture & Equipment	DWCF	Future Request	588

C. Title, Authorization and Appropriation Summary:

FY 2020 Title is "Bulk Storage Tanks Ph 1"
FY 2023 Proposed Title Change is "PDI: Bulk Storage Tanks PH1"

	Authorization ($000)	Auth of Approp ($000)	Approp ($000)
FY 2020 Enacted	116,305	50,000	50,000
FY 2023 Budget Request	-----	44,000	44,000
Future Request	-----	22,305	22,305
Total	116,305	--------	116,305

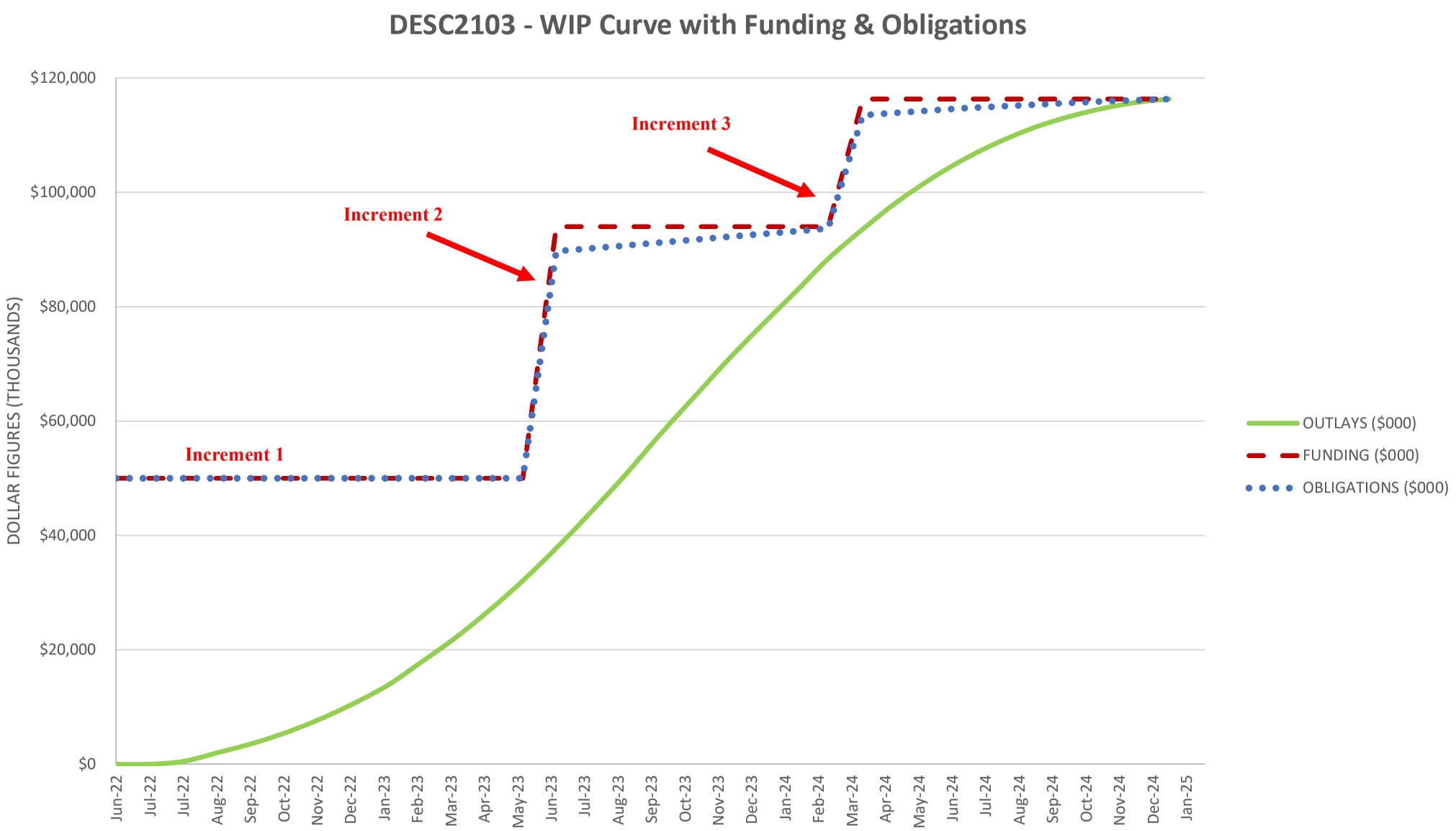
Point of Contact is DLA Civil Engineer at 571-767-0631

PROJECT SPENDING PLAN

DD form 1390, JUL 1999

Project: FY20 DESC DLA Construct Jet Fuel Bulk Storage Tanks, Yokota AB
Project Cost ($000): $116,305,000
As of MAR 2022

	FUNDING ($000)		OBLIGATIONS ($000)		OUTLAYS ($000)		Months of construction
Month-Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative	
May-22	$50,000	$50,000	$50,000	$50,000	$0	$0	Funding
Jun-22		$50,000		$50,000	$0	$0	Award
Jul-22		$50,000		$50,000	$0	$0	NTP
Aug-22		$50,000		$50,000	$518	$518	1
Sep-22		$50,000		$50,000	$1,541	$2,059	2
Oct-22		$50,000		$50,000	$1,559	$3,618	3
Nov-22		$50,000		$50,000	$1,934	$5,552	4
Dec-22		$50,000		$50,000	$2,343	$7,895	5
Jan-23		$50,000		$50,000	$2,803	$10,698	6
Feb-23		$50,000		$50,000	$3,253	$13,951	7
Mar-23		$50,000		$50,000	$3,784	$17,735	8
Apr-23		$50,000		$50,000	$4,292	$22,027	9
May-23		$50,000		$50,000	$4,726	$26,753	10
Jun-23		$50,000		$50,000	$5,320	$32,073	11
Jul-23	$44,000	$94,000	$39,700	$89,700	$5,716	$37,789	12
Aug-23		$94,000	$500	$90,200	$6,242	$44,031	13
Sep-23		$94,000	$500	$90,700	$6,565	$50,596	14
Oct-23		$94,000	$500	$91,200	$6,795	$57,391	15
Nov-23		$94,000	$500	$91,700	$6,652	$64,043	16
Dec-23		$94,000	$500	$92,200	$6,426	$70,469	17
Jan-24		$94,000	$500	$92,700	$6,190	$76,659	18
Feb-24		$94,000	$500	$93,200	$5,990	$82,649	19
Mar-24		$94,000	$500	$93,700	$5,714	$88,363	20
Apr-24	$22,305	$116,305	$19,805	$113,505	$5,176	$93,539	21
May-24		$116,305	$400	$113,905	$4,662	$98,201	22
Jun-24		$116,305	$400	$114,305	$4,107	$102,308	23
Jul-24		$116,305	$400	$114,705	$3,493	$105,801	24
Aug-24		$116,305	$300	$115,005	$2,965	$108,766	25
Sep-24		$116,305	$300	$115,305	$2,493	$111,259	26
Oct-24		$116,305	$300	$115,605	$1,856	$113,115	27
Nov-24		$116,305	$300	$115,905	$1,483	$114,598	28
Dec-24		$116,305	$200	$116,105	$1,092	$115,690	29
Jan-25		$116,305	$200	$116,305	$610	$116,300	30



DD form 1390, JUL 1999

DOD Education Activity
FY 2023 Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Germany				
U.S. Army Garrison Baumholder				
Baumholder Elementary School	71,000	71,000	C	37
U.S. Army Garrison Wiesbaden				
Clay Kaserne Elementary School	-	60,000	C	41
Japan				
Yokosuka				
Kinnick High School Increment 2	-	20,000	C	46
Total	**71,000**	**151,000**		

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE
DEF (DoDEA)		March 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
US ARMY GARRISON BAUMHOLDER, GERMANY	DoDEA	1.05

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 30 SEP 2017						464				464
b. END OF FY 2027						700				700

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	0
b. INVENTORY TOTAL AS OF YYYMMDD	0
c. AUTHORIZATION NOT YET IN INVENTORY	0
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	71,000
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
f. PLANNED IN NEXT THREE PROGRAM YEARS	0
g. REMAINING DEFICIENCY	0
h. GRAND TOTAL	71,000

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST *($000)*	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
73046	BAUMHOLDER ELEMENTARY SCHOOL	135,200 SF	71,000	APR 2018	AUG 2022

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

Military Dependent Education

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

DD FORM 1390, JUL 1999

1. COMPONENT DEF (DoDEA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**	2. Date March 2022
3. INSTALLATION AND LOCATION US ARMY GARRISON BAUMHOLDER, GERMANY	4. PROJECT TITLE: BAUMHOLDER ELEMENTARY SCHOOL	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	73046	EU00181	71,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST
PRIMARY FACILITIES				**46,280**
BAUMHOLDER ELEMENTARY SCHOOL	SF	135,200	(323.59)	(43,750)
SDD AND FEDERAL ENERGY ACTS COMPLIANCE	LS			(900)
ANTITERRORISM (AT/FP) MEASURES	LS			(880)
CYBERSECURITY MEASURES	LS			(750)
SUPPORTING FACILITIES				**16,600**
ELECTRICAL/COMMUNICATION UTILITIES	LS			(1,610)
COMMUNICATON UTILITIES	LS			(750)
WATER/SEWER UTILITIES	LS			(3,040)
SITE PREPARATION	LS			(1,820)
SITE IMPROVEMENTS	LS			(5,530)
DEMOLITION	LS			(3,850)
SUBTOTAL				**62,880**
CONTINGENCY (5.00%)			5.00%	3,144
TOTAL CONTRACT COST				**66,024**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH) (6.5%)			6.50%	4,292
ENGINEERING DURING CONSTRUCTION				250
TOTAL REQUEST				**70,566**
TOTAL REQUEST (ROUNDED)				**71,000**
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				4,404

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct an elementary school with functional areas containing neighborhood instructional spaces, special education spaces, staff collaboration spaces, commons area, multipurpose room, information center, gymnasium, art room, music room, administrative suite, health suite, guidance counseling suite, special education suite, food service, maintenance support, central storage area, technology service center, and other required areas for a fully functioning elementary school.

Department of Defense (DoD) and Department of Defense Education Activity (DoDEA) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders.

Anti-Terrorism/Force Protection (AT/FP) features will comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings and the Physical Security & Antiterrorism Design Guide for DoDEA Educational Facilities. CCTV cameras for building surveillance are included in the MILCON project.

Facilities will be designed to provide cyber security engineering and validation as specified in DoD Unified Facilities Criteria.

1. COMPONENT DEF (DoDEA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date March 2022
3. INSTALLATION AND LOCATION US ARMY GARRISON BAUMHOLDER, GERMANY		4. PROJECT TITLE: BAUMHOLDER ELEMENTARY SCHOOL	
5. PROGRAM ELEMENT	6. CATEGORY CODE 73046	7. PROJECT NUMBER EU00181	8. PROJECT COST ($000) 71,000

Electrical utilities include connection to base infrastructure and internal electrical distribution systems to support equipment such as mechanical, life/safety, access control, lighting, and audio/visual systems.

Communication utilities include outside plant infrastructure required to support both wired and wireless capabilities within the facility.

Water/Sewer utilities include both potable and non-potable water distribution, sanitary sewer system extensions and connections.

Site preparation includes work such as clearing and grubbing, erosion and sediment control, construction fencing, establishing haul routes and contractor material laydown. Environmental mitigation will be required for activities such as tree cutting, landscape protection, and protection of groundwater. This work will be done in accordance with appropriate German Laws and Regulations.

Site improvements include work such as staff and visitor parking areas, parent drop off lane, emergency access lanes, bus loading/unloading areas, delivery/maintenance service areas, playgrounds, open space play areas, bicycle racks, site furnishings, site paving (walks/paths), landscaping, fencing, covered walkways/canopies, signage, exterior lighting, external ATFP controls/structures, and storm water management. Low Impact Development will be included in the design and construction of this project as appropriate.

Demolition includes approximately 163,000 SF of existing facilities.

Facilities will be designed in accordance with DoDEA Education Facilities Specifications, DoD Unified Facilities Criteria and other applicable codes.

Facilities will be designed to meet or exceed the useful service life specified in DoD Unified Facilities Criteria. Facilities will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency.

11. REQUIREMENT: 135,200 SF ADQT: 000,000 SF SUBSTD: 163,000 SF

PROJECT:

This project constructs an elementary school by replacing the existing elementary school and associated supporting facilities.

REQUIREMENT:

The elementary school is required to provide adequate academic facilities for 700 students in Pre-Kindergarten thru Grade Five. School population is based on the projected enrollment for 2027/2028 school year.

This project is not sited in a 100-year flood plain.

CURRENT SITUATION:

The existing Smith Elementary School was built in 1953. The Wetzel Elementary School is currently closed awaiting demolition. The Smith Elementary School is in fair condition but is close to 70 years old and is not of adequate size to support the projected future growth at Baumholder.

1. COMPONENT DEF (DoDEA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**	2. Date March 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
US ARMY GARRISON BAUMHOLDER, GERMANY	BAUMHOLDER ELEMENTARY SCHOOL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	73046	EU00181	71,000

IMPACT IF NOT PROVIDED:

If a new facility is not provided, the substandard environment will continue to hamper the educational process. The required maintenance and repair of existing systems will continue to strain maintenance capabilities and budgets. Projected enrollment increases associated with known force structure movements will require the use of temporary facilities.

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 DoDEA requirements.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design/Bid/Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	APR 2018
(b) Percent of Design Completed as of January 2022:	35%
(c) Design or RFP Complete:	AUG 2022
(d) Total Design Cost:	7,179
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used:	No
(3) Construction Data:	
(a) Contract Award:	JUN 2023
(b) Construction Start:	JUL 2023
(c) Construction Complete:	FEB 2027

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

Equipment Nomenclature	Procuring Appropriation	FY Appropriated of Requested	Cost ($000)
Furnishings	O&M	2026	863
Kitchen	O&M	2023	563
IT	O&M	2026	1,448
Education Supplies	O&M	2026	1,433
Safety Equipment	O&M	2026	11
Security Equipment	O&M	2026	86

DoDEA POC (571) 372-1405

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE
DEF (DoDEA)		March 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
US ARMY GARRISON WIESBADEN, GERMANY	DoDEA	1.05

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 27 SEP 2021						177				177
b. END FY 2027						290				290

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	0
b. INVENTORY TOTAL AS OF YYYMMDD	0
c. AUTHORIZATION NOT YET IN INVENTORY	60,000
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	0
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
f. PLANNED IN NEXT THREE PROGRAM YEARS	0
g. REMAINING DEFICIENCY	0
h. GRAND TOTAL	60,000

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST *($000)*	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
73046	CLAY KASERNE ELEMENTARY SCHOOL	76,000 SF	60,000	SEP 2017	AUG 2022

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

Military Dependent Education

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

DD FORM 1390, JUL 1999

1. COMPONENT DEF (DoDEA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**	2. Date March 2022
3. INSTALLATION AND LOCATION US ARMY GARRISON WIESBADEN, GERMANY	4. PROJECT TITLE: CLAY KASERNE ELEMENTARY SCHOOL	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	73046	EU00112	60,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST
PRIMARY FACILITIES				**35,910**
CLAY KASERNE ELEMENTARY SCHOOL	SF	76,000	(443.95)	(33,740)
SDD AND FEDERAL ENERGY ACTS COMPLIANCE	LS			(760)
ANTITERRORISM (AT/FP) MEASURES	LS			(660)
CYBERSECURITY MEASURES	LS			(750)
SUPPORTING FACILITIES				**17,520**
ELECTRICAL/COMMUNICATION UTILITIES	LS			(1,090)
WATER/SEWER UTILITIES	LS			(2,440)
SITE PREPARATION	LS			(2,190)
SITE IMPROVEMENTS	LS			(9,090)
DEMOLITION	LS			(2,710)
SUBTOTAL				**53,430**
CONTINGENCY (5.00%)			5.00%	2,672
TOTAL CONTRACT COST				**56,102**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH) (6.5%)			6.50%	3,647
ENGINEERING DURING CONSTRUCTION				240
TOTAL REQUEST				**59,989**
TOTAL REQUEST (ROUNDED)				**60,000**
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				2,745

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct an elementary school with functional areas containing neighborhood instructional spaces, special education spaces, staff collaboration spaces, commons area, multipurpose room, information center, gymnasium, art room, music room, administrative suite, health suite, guidance counseling suite, special education suite, food service, maintenance support, central storage area, technology service center, and other required areas for a fully functioning elementary school.

Department of Defense (DoD) and Department of Defense Education Activity (DoDEA) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders.

Anti-Terrorism/Force Protection (AT/FP) features will comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings and the Physical Security & Antiterrorism Design Guide for DoDEA Educational Facilities. CCTV cameras for building surveillance are included in the MILCON project.

Facilities will be designed to provide cyber security engineering and validation as specified in DoD Unified Facilities Criteria.

Electrical utilities include electrical power secondary extension, transformer station, and house connections.

1. COMPONENT DEF (DoDEA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date March 2022
3. INSTALLATION AND LOCATION US ARMY GARRISON WIESBADEN, GERMANY		4. PROJECT TITLE: CLAY KASERNE ELEMENTARY SCHOOL	
5. PROGRAM ELEMENT	6. CATEGORY CODE 73046	7. PROJECT NUMBER EU00112	8. PROJECT COST ($000) 60,000

Communication utilities include outside plant infrastructure required for both wired and wireless capabilities within the facility.

Water/Sewer utilities include both potable and non-potable water distribution, sanitary sewer system extensions and connections, and fire protection water storage tanks and pumps.

Site preparation includes work such as clearing and grubbing, erosion and sediment control, construction fencing, establishing haul routes and contractor material laydown. Environmental mitigation will be required for activities such as tree cutting, landscape protection, and protection of groundwater. This work will be done in accordance with appropriate German Laws and Regulations.

Site improvements include work such as staff and visitor parking areas, parent drop off lane, emergency access lanes, bus loading/unloading areas, delivery/maintenance service areas, playgrounds, open space play areas, bicycle racks, site furnishings, site paving (walks/paths), landscaping, fencing, covered walkways/canopies, signage, exterior lighting, external ATFP controls/structures, and storm water management. Low Impact Development will be included in the design and construction of this project as appropriate.

Demolition includes approximately 69,000 SF of existing facilities.

Facilities will be designed in accordance with DoDEA Education Facilities Specifications, DoD Unified Facilities Criteria and other applicable codes.

Facilities will be designed to meet or exceed the useful service life specified in DoD Unified Facilities Criteria. Facilities will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency.

11. REQUIREMENT: 76,000 SF ADQT: 000,000 SF SUBSTD: 41,593 SF

PROJECT:

This project constructs an elementary school at Clay Kaserne to replace the existing elementary school and supporting facilities at Aukamm Housing Area.

REQUIREMENT:

The elementary school is required to provide adequate academic facilities for 290 students in Pre-Kindergarten thru Grade Five. School population is based on the projected enrollment for 2027/2028 school year. This elementary school will primarily support the Lucius D. Clay Kaserne installation dependents and will also support the off-post housing dependents.

This project is not sited in a 100-year flood plain.

CURRENT SITUATION:

The existing Aukamm facility was built in 1961 with a small 2 classroom Kindergarten annex building added in 2004. The existing facility is in fair condition, but is aging and is located in an area that does not have a controlled perimeter due to a City of Wiesbaden municipal street that bisects the housing area. UFC and EUCOM OP-ORD requirements cannot be met on the current Aukamm campus, compelling a relocation of the replacement facility. The Army has made a significant investment in the Clay Kaserne installation in recent years and there is a substantial housing inventory and dependent population on this installation. The new site on Clay Kaserne is within a controlled perimeter

1. COMPONENT DEF (DoDEA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**	2. Date March 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
US ARMY GARRISON WIESBADEN, GERMANY	CLAY KASERNE ELEMENTARY SCHOOL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	73046	EU00112	60,000

and security requirements can be met. This population of existing dependents, along with those living south and east of Clay Kaserne will be served by the new school.

IMPACT IF NOT PROVIDED:

If a new facility is not provided, the substandard environment will continue to hamper the educational process, students will continue to endure longer than desirable bus commutes and the campus will remain a security risk from threats associate with an uncontrolled perimeter exposure. The required maintenance and repair of expired and failing systems will continue to strain maintenance capabilities and budgets.

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 DoDEA requirements.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design/Bid/Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	SEP 2017
(b) Percent of Design Completed as of January 2022:	65%
(c) Design or RFP Complete:	AUG 2022
(d) Total Design Cost:	5,157
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used:	No
(3) Construction Data:	
(a) Contract Award:	MAY 2023
(b) Construction Start:	JUN 2023
(c) Construction Complete:	FEB 2027

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

Equipment Nomenclature	Procuring Appropriation	FY Appropriated of Requested	Cost ($000)
Furnishings	O&M	2026	358
Kitchen	O&M	2023	761
IT	O&M	2026	988
Education Supplies	O&M	2026	593
Safety Equipment	O&M	2026	10
Security Equipment	O&M	2026	35

1. COMPONENT DEF (DoDEA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date March 2022
3. INSTALLATION AND LOCATION US ARMY GARRISON WIESBADEN, GERMANY		4. PROJECT TITLE: CLAY KASERNE ELEMENTARY SCHOOL	
5. PROGRAM ELEMENT	6. CATEGORY CODE 73046	7. PROJECT NUMBER EU00112	8. PROJECT COST ($000) 60,000

C. Authorization and Appropriation Summary:

	Authorization ($000)	Auth of Approp ($000)	Approp ($000)
FY 2019 Enacted	56,048	56,048	56,048
Reallocated to 10 USC 2808 projects	-------	-------	(56,048)
Cost Variation	3,952	-------	-------
FY 2023 Request	0	60,000	60,000
Total	60,000		60,000

DoDEA POC (571) 372-1405

DD FORM 1391, JUL 1999

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE
DEF (DoDEA)		March 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
COMMANDER FLEET ACTIVITIES (CFA), YOKOSUKA, JAPAN	DoDEA	1.93

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 27 SEP 2021						657				657
b. END OF FY 2026						673				673

7. INVENTORY DATA *($000)*	
a. TOTAL ACREAGE (acre)	0
b. INVENTORY TOTAL AS OF YYYMMDD	0
c. AUTHORIZATION NOT YET IN INVENTORY	170,386
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	0
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
f. PLANNED IN NEXT THREE PROGRAM YEARS	0
g. REMAINING DEFICIENCY	0
h. GRAND TOTAL	170,386

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST *($000)*	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
73061	KINNICK HIGH SCHOOL, INCREMENT 2	166,100 SF	20,000	APR 2016	JAN 2019

9. FUTURE PROJECTS

73061	KINNICK HIGH SCHOOL	166,100 SF	110,386	APR 2016	JAN 2019

10. MISSION OR MAJOR FUNCTIONS

Military Dependent Education

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

DD FORM 1390, JUL 1999

1. COMPONENT DEF (DoDEA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**	2. Date March 2022
3. INSTALLATION AND LOCATION COMMANDER FLEET ACTIVITIES (CFA), YOKOSUKA, JAPAN	4. PROJECT TITLE: KINNICK HIGH SCHOOL, INCREMENT 2	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	73061	PA00109	20,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST
PRIMARY FACILITIES				**$ 109,056**
KINNICK HIGH SCHOOL and FIELD HOUSE (73061)	SF	166,100	$ 622.69	$ 103,429
SDD AND FEDERAL ENERGY ACTS COMPLIANCE	LS			$ 1,307
ANTITERRORISM (AT/FP) MEASURES	LS			$ 3,502
CYBERSECURITY MEASURES	LS			$ 818
SUPPORTING FACILITIES				**$ 43,009**
SPECIAL FOUNDATION FEATURES	LS			$ 7,293
ELECTRICAL/GAS UTILITIES	LS			$ 7,842
COMMUNICATION UTILITIES	LS			$ 1,596
WATER/SEWER UTILITIES	LS			$ 5,377
SITE PREPARATION	LS			$ 4,110
SITE IMPROVEMENTS	LS			$ 14,586
AT/FP - PHYSICAL SECURITY MEASURES	LS			$ 509
DEMOLITION	LS			$ 738
ENVIRONMENTAL MITIGATION	LS			$ 958
SUBTOTAL				**$ 152,065**
CONTINGENCY (5.00%)			5.00%	$ 7,603
TOTAL CONTRACT COST				**$ 159,668**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH)			6.50%	$ 10,378
ENGINEERING DURING CONSTRUCTION				$ 340
TOTAL REQUEST				**$ 170,386**
PREVIOUS APPROPRIATIONS				$ 40,000
FUTURE APPROPRIATION REQUEST				$ 110,386
CURRENT APPROPRIATION REQUEST				**$ 20,000**
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				$ 4,668

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

This is the second increment of the Kinnick High School replacement. The project will construct a four story high school with functional areas containing neighborhood instructional spaces, special education spaces, staff collaboration spaces, commons area, performance space, information center, physical education, art room, music room, science labs, career technical education labs, junior reserved officer's training corps, administration suite, health suite, guidance counseling suite, special education suite, food service, janitorial workroom, maintenance support, school supply/storage area, technology service center, and other required areas for a fully functioning high school. Typical construction is anticipated to consist of concrete beam and pile foundation, concrete and structural steel frame, and concrete exterior walls. Interior construction will consist of gypsum wallboard partitions, operable/movable partition walls, and reinforced concrete walls.

Department of Defense (DoD) and Department of Defense Education Activity (DoDEA) principles for high performance and sustainable building requirements will be included in the design and construction of the project in

1. COMPONENT DEF (DoDEA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date March 2022
3. INSTALLATION AND LOCATION COMMANDER FLEET ACTIVITIES (CFA), YOKOSUKA, JAPAN		4. PROJECT TITLE: KINNICK HIGH SCHOOL, INCREMENT 2	
5. PROGRAM ELEMENT	6. CATEGORY CODE 73061	7. PROJECT NUMBER PA00109	8. PROJECT COST ($000) 20,000

accordance with federal laws and Executive Orders. Low Impact Development will be included in the design and construction of this project as appropriate.

This project will provide Anti-Terrorism/Force Protection (AT/FP) features, including design for progressive collapse and blast-rated windows and doors, and comply with AT/FP regulations, and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings and any Theater-specific requirements.

Facilities will be designed to provide cyber security engineering and validation as specified in DoD Unified Facilities Criteria.

The project site is on reclaimed land with dredged fill and the project will require deep concrete pile foundations as a special foundation feature due to the un-compacted or non-uniform nature of the underlying soils

The project includes related infrastructure such as water, sewer, steam, electrical, telephone, local area network, community access television systems, provisions for interior and campus wireless access. The project includes site preparation that includes non-building demolition and site improvements such as signage, fencing, paving, landscaping, covered walkways, canopies, exterior lighting, storm water, external AT/FP, pedestrian crosswalks, outdoor play areas, and athletic fields.

Demolition includes approximately 45,000 SF of existing facilities.

The project will require environmental mitigation for all buildings to be demolished, including asbestos removal. U.S. Federal and Japanese Environmental Laws and Regulations will be followed. Part of the site is on reclaimed land area with Tokyo Bay dredge fill material known as Briggs Bay. Soil contamination levels were determined to be acceptable with the implementation of risk management procedures during construction. Environmental mitigation will be required during construction to monitor, contain and remediate the soils.

Facilities will be designed in accordance with DoDEA Education Facilities Specifications, Unified Facilities Criteria, Japan Environmental Governing Standards, Standards of Seismic Safety for Federally Owned Buildings, and energy and water conservation standards.

Facilities will be designed to meet or exceed the useful service life specified in DoD Unified Facilities Criteria. Facilities will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency.

11. REQUIREMENT: 166,100 SF ADQT: 0 SF SUBSTD: 45,000 SF

PROJECT:

This project constructs a new high school by replacing the existing high school and associated support facilities.

REQUIREMENT:

The high school is required to provide adequate academic facilities for 673 students in grades 9 through 12.

School population based on the projected enrollment for 2022/2023 school year.

This project is not sited in a 100-year flood plain.

1. COMPONENT DEF (DoDEA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**	2. Date March 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
COMMANDER FLEET ACTIVITIES (CFA), YOKOSUKA, JAPAN	KINNICK HIGH SCHOOL, INCREMENT 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	73061	PA00109	20,000

CURRENT SITUATION:

The current high school was originally constructed in 1989. A temporary building was built in 1996 to provide 12 additional classrooms. The school has a poor facility condition rating; it is more economical to replace than to repair. The following systems are expired or are failing and in need of replacement; fire alarm and suppression, electrical power and telecommunication, heating ventilation and air-conditioning, steam heating, plumbing piping, toilet fixtures, wall finishes, floor finishes, door hardware, and windows. The facility does not meet the DoDEA Education Facilities Specifications to include a bus drop off and pick up area, a parent drop off and pick up area, and adequate parking due to a tight site that does not provide room for expansion. The school lacks outdoor athletic facilities and currently utilizes the installation facilities when available. The facility does not meet current Antiterrorism measures, accessibility requirements, fire protection codes, and current federal energy and sustainability mandates. Additionally, the existing school campus is in the middle of the Yokosuka Naval Base community support area and is not in accordance with the Yokosuka Naval Base Master Plan.

IMPACT IF NOT PROVIDED:

The substandard environment will continue to hamper the educational process and the high school will not be able to support the DoDEA curriculum and provide for a safe facility. The required maintenance and repair of expired and failing systems will continue to strain maintenance capabilities and budgets.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design/Bid/Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	APR 2016
(b) Percent of Design Completed as of January 2022:	100%
(c) Design or RFP Complete:	JAN 2019
(d) Total Design Cost:	10,966
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used:	No
(3) Construction Data:	
(a) Contract Award:	AUG 2022
(b) Construction Start:	SEP 2022
(c) Construction Complete:	SEP 2026

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

Equipment Nomenclature	Procuring Appropriation	FY Appropriated of Requested	Cost ($000)
Furnishings	O&M	2026	774
Kitchen	O&M	2026	505
IT	O&M	2026	1,461
Education Supplies	O&M	2026	1,841
Safety Equipment	O&M	2026	10
Security Equipment	O&M	2026	77

1. COMPONENT DEF (DoDEA)	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date March 2022
3. INSTALLATION AND LOCATION COMMANDER FLEET ACTIVITIES (CFA), YOKOSUKA, JAPAN		4. PROJECT TITLE: KINNICK HIGH SCHOOL, INCREMENT 2	
5. PROGRAM ELEMENT	6. CATEGORY CODE 73061	7. PROJECT NUMBER PA00109	8. PROJECT COST ($000) 20,000

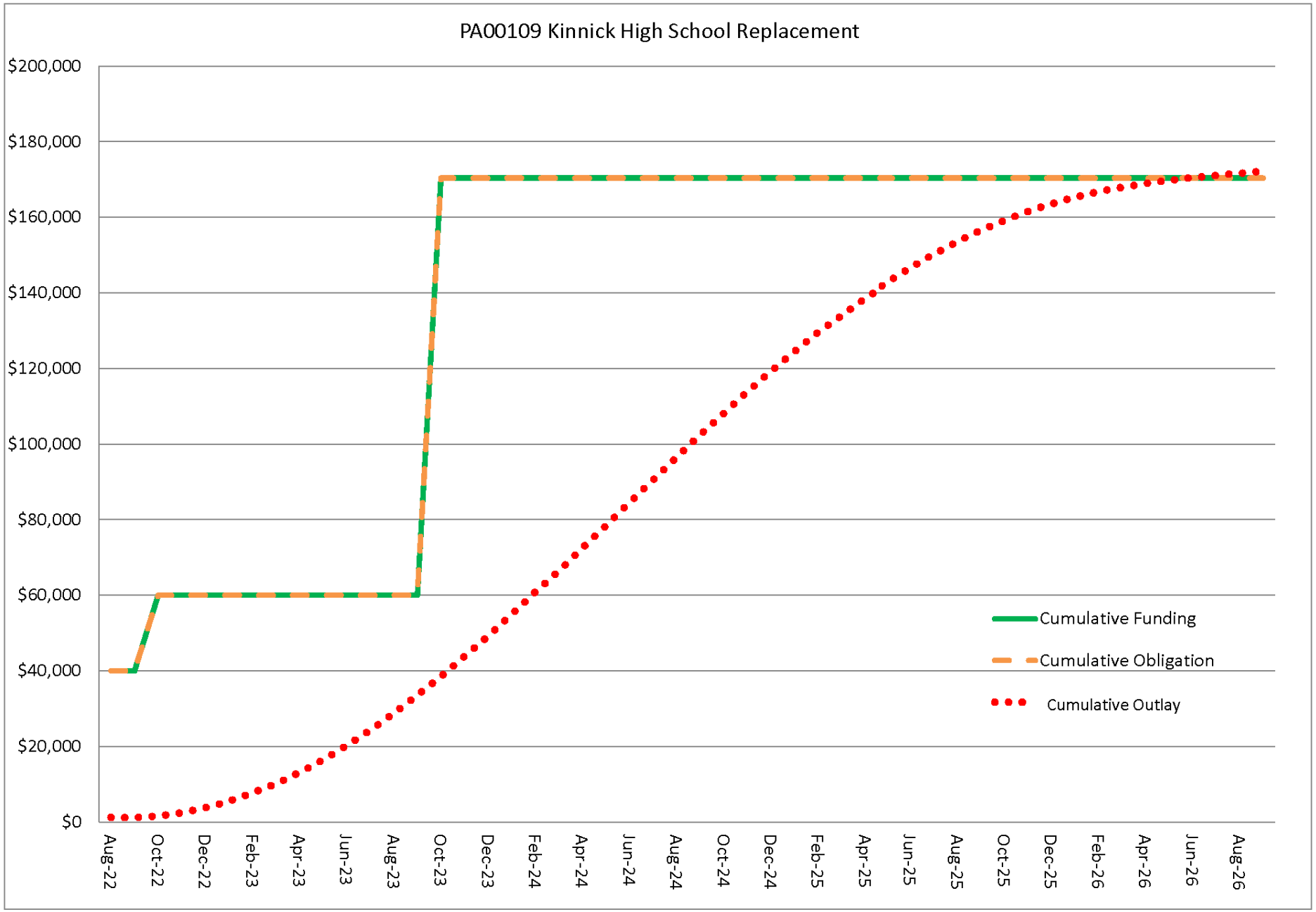
C. Authorization and Appropriation Summary:

	Authorization ($000)	Auth of Approp ($000)	Approp ($000)
FY 2019 Enacted	170,386	40,000	40,000
Reallocated to 10 USC 2808 projects	------	------	(40,000)
Restored from 10 USC 2808 projects	------	------	40,000
FY 2023 Request	------	20,000	20,000
Future Request	------	110,386	110,386
Total	170,386		170,386

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 DoDEA requirements.

DoDEA POC (571) 372-1405


PA00109 Kinnick High School Replacement
$200,000
$180,000
$160,000
$140,000
$120,000
$100,000
$80,000
$60,000
$40,000
$20,000
$0
Aug-22
Oct-22
Dec-22
Feb-23
Apr-23
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Aug-23
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Dec-25
Feb-26
Apr-26
Jun-26
Aug-26
Cumulative Funding
Cumulative Obligation
Cumulative Outlay

Project Spending Plan

Project: PA00109 Kinnick High School Replacement

As Of: 3/3/2022

	Funding		Obligations		Outlay	
Month/Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
	All costs in thousands ($000)					
Aug-22	$40,000	$40,000	$40,000	$40,000	$0	$0
Sep-22	-	$40,000	-	$40,000	$0	$0
Oct-22	$20,000	$60,000	$20,000	$60,000	$872	$872
Nov-22	-	$60,000	-	$60,000	$872	$1,744
Dec-22	-	$60,000	-	$60,000	$872	$2,615
Jan-23	-	$60,000	-	$60,000	$1,604	$4,220
Feb-23	-	$60,000	-	$60,000	$1,604	$5,824
Mar-23	-	$60,000	-	$60,000	$2,994	$8,818
Apr-23	-	$60,000	-	$60,000	$2,994	$11,811
May-23	-	$60,000	-	$60,000	$2,994	$14,805
Jun-23	-	$60,000	-	$60,000	$2,994	$17,799
Jul-23	-	$60,000	-	$60,000	$2,994	$20,793
Aug-23	-	$60,000	-	$60,000	$2,994	$23,787
Sep-23	-	$60,000	-	$60,000	$2,994	$26,780
Oct-23	$110,386	$170,386	$110,386	$170,386	$2,232	$29,012
Nov-23	-	$170,386	-	$170,386	$8,932	$37,944
Dec-23	-	$170,386	-	$170,386	$8,932	$46,877
Jan-24	-	$170,386	-	$170,386	$3,125	$50,002
Feb-24	-	$170,386	-	$170,386	$4,621	$54,623
Mar-24	-	$170,386	-	$170,386	$4,621	$59,244
Apr-24	-	$170,386	-	$170,386	$4,621	$63,865
May-24	-	$170,386	-	$170,386	$4,621	$68,486
Jun-24	-	$170,386	-	$170,386	$4,621	$73,107
Jul-24	-	$170,386	-	$170,386	$8,731	$81,837
Aug-24	-	$170,386	-	$170,386	$8,731	$90,568
Sep-24	-	$170,386	-	$170,386	$8,731	$99,298
Oct-24	-	$170,386	-	$170,386	$8,835	$108,133
Nov-24	-	$170,386	-	$170,386	$8,835	$116,968
Dec-24	-	$170,386	-	$170,386	$4,499	$121,467
Jan-25	-	$170,386	-	$170,386	$2,639	$124,106
Feb-25	-	$170,386	-	$170,386	$2,639	$126,744
Mar-25	-	$170,386	-	$170,386	$2,639	$129,383
Apr-25	-	$170,386	-	$170,386	$2,639	$132,022
May-25	-	$170,386	-	$170,386	$2,639	$134,661
Jun-25	-	$170,386	-	$170,386	$2,639	$137,300
Jul-25	-	$170,386	-	$170,386	$4,161	$141,461
Aug-25	-	$170,386	-	$170,386	$3,885	$145,346
Sep-25	-	$170,386	-	$170,386	$3,885	$149,231
Oct-25	-	$170,386	-	$170,386	$4,145	$153,377
Nov-25	-	$170,386	-	$170,386	$5,154	$158,531
Dec-25	-	$170,386	-	$170,386	$5,154	$163,685
Jan-26	-	$170,386	-	$170,386	$4,197	$167,882
Feb-26	-	$170,386	-	$170,386	$518	$168,401
Mar-26	-	$170,386	-	$170,386	$518	$168,919
Apr-26	-	$170,386	-	$170,386	$518	$169,437
May-26	-	$170,386	-	$170,386	$518	$169,956
Jun-26	-	$170,386	-	$170,386	$11	$169,967
Jul-26	-	$170,386	-	$170,386	$11	$169,978
Aug-26	-	$170,386	-	$170,386	$11	$169,989
Sep-26	-	$170,386	-	$170,386	$11	$170,000

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National Security Agency
FY 2023 Military Construction, Defense-Wide
March 2022
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Maryland				
Ft. George G. Meade NSAW Recapitalization Building 4, Increment 2	-	378,000	C	54
Ft. George G. Meade Mission Operations and Records Center Increment 2	-	140,000	C	59
Total	**-**	**518,000**		

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE
DEF (NSA/CSS)		MAR 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
FORT GEORGE G. MEADE, MARYLAND	NSA/CSS	1.00

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF										0
b. END FY										0

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	0.00
b. INVENTORY TOTAL AS OF YYYMMDD	0.00
c. AUTHORIZATION NOT YET IN INVENTORY	1,101,000.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	0.00
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	756,000.00
f. PLANNED IN NEXT THREE PROGRAM YEARS	90,000.00
g. REMAINING DEFICIENCY	0.00
h. GRAND TOTAL	1,947,000.00

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST *($000*	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
14190	NSAW East Campus Building #4, Increment 2	857,335 SF (bldg.) 1,190,724 SF (parking)	378,000	OCT 2019	APR 2021
14169	NSAW Mission Operations & Records Center, Increment 2	339,043 SF	140,000	APR 2020	JUN 2021

9. FUTURE PROJECTS

14190	NSAW East Campus Building #4, Increment 3	857,335 SF (bldg.) 1,190,724 SF (parking)	319,900	OCT 2019	APR 2021
14169	NSAW Mission Operations & Records Center, Increment 3	339,043 SF	65,000	APR 2020	JUN 2021
61050	NSAW East Campus Building #5	815,879 SF (bldg.) 959,625 SF (parking)	756,000	NOV 2021	JAN 2024
82109	NSAW Boiler Plant Recapitalization	TBD	90,000	TBD	TBD

10. MISSION OR MAJOR FUNCTIONS

The National Security Agency/Central Security Service (NSA/CSS) leads the U.S. Government in cryptology that encompasses both Signals Intelligence and Information Assurance products and services, and enables Computer Network Operations in order to gain a decision advantage for the Nation and our allies under all circumstances.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

DD FORM 1390, JUL 1999

1. COMPONENT NSA/CSS	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**	2. Date MAR 2022
3. INSTALLATION AND LOCATION FORT GEORGE G. MEADE, MARYLAND	4. PROJECT TITLE: NSAW EAST CAMPUS BUILDING #4, INCREMENT 2	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	14190	38608	378,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				**648,264**
C4I BUILDING (CC 14190)	SF	857,335	$ 573.17	(491,399)
PARKING FACILITY (CC 85218)	SF	1,190,724	$ 96.36	(114,738)
SPECIAL COSTS	LS			(15,373)
ANTITERRORISM/FORCE PROTECTION	LS			(16,061)
SUSTAINABILITY AND ENERGY FEATURES	LS			(9,839)
OMSI	LS			(854)
SUPPORTING FACILITIES				**36,713**
ELECTRIC SERVICE	LS			(8,921)
WATER, SEWER, GAS	LS			(2,448)
PAVING, WALKS, CURBS AND GUTTERS	LS			(6,924)
STORM DRAINAGE & LOW IMPACT DEVELOPMENT	LS			(684)
SITE IMPROVEMENTS (8,340) DEMOLITION (8,811)	LS			(17,150)
INFORMATION SYSTEMS	LS			(586)
ESTIMATED CONTRACT COST				**684,977**
CONTINGENCY (5.0%)				34,249
SUBTOTAL				**719,226**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH) (5.7%)				40,996
DESIGN/BUILD (4.0%)				27,399
OTHER (DESIGN DURING CONSTRUCTION)				14,385
TOTAL REQUEST				802,005
TOTAL REQUEST (ROUNDED)				**802,000**
PREVIOUS APPROPRIATIONS				104,100
CURRENT APPROPRIATION REQUEST				378,000
FUTURE APPROPRIATION REQUEST				319,900
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				137,000

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a Command, Control, Communications, Combat Systems, Intelligence, Surveillance, and Reconnaissance (C4ISR) Operations Building and structured parking facility with all required supporting facilities, associated site work, and environmental measures. The facility will provide operational office space, support space, equipment and communications space, and storage areas.

Operational areas include private offices and open flexible seating space, collaborative multi-discipline work spaces, administrative support spaces, and conference areas. Computer labs and virtual instruction/distance learning enabled classroom facilities are included. Amenity spaces include physical fitness space, food service, and dining area.

The primary facility will be a multi-story structure with full basement. The project consists of core, shell structure, and foundations; elevators; electrical/mechanical service and distribution components and systems; life safety generator, fire protection, alarm, and suppression systems; information technology infrastructure, communications, and security systems support infrastructure; exterior finishes and weatherproofing. Interior build out will provide raised access

1. COMPONENT NSA/CSS	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MAR 2022
3. INSTALLATION AND LOCATION FORT GEORGE G. MEADE, MARYLAND		4. PROJECT TITLE: NSAW EAST CAMPUS BUILDING #4, INCREMENT 2	
5. PROGRAM ELEMENT	6. CATEGORY CODE 14190	7. PROJECT NUMBER 38608	8. PROJECT COST ($000) 378,000

floor systems, acoustically-rated interior partitions and ceilings, power, lighting, environmental controls, and communications. The entire structure will be built to Sensitive Compartmented Information Facility (SCIF) standards, with redundant primary power and Uninterruptable Power Supply (UPS) systems to ensure continuity of operations.

A parking structure will be constructed to provide privately-owned vehicle (POV) parking for staff and visitors. New road construction, widening, realignment, and modifications to existing roads including signals and other road improvements will be provided to connect to existing traffic infrastructure.

Construction estimates incorporate special costs associated with construction on a secure site, clearances for personnel, and labor inefficiencies associated with escort requirements. Escorts are required for positive control of access to utilities which service other critical facilities.

Facility physical security will conform to DOD Minimum Anti-Terrorism Standards for Buildings. Anti-Terrorism/Force Protection (ATFP) and include access control, setbacks, architectural shielding, Intrusion Detection Systems (IDS), progressive collapse requirements, and compliance with relevant ATFP regulations including fencing, bollards and protective planters, and electronic security systems to extend the secure perimeter. DOD standards for high performance and sustainable buildings will be included in design and construction of the facility, according to federal law and Executive Orders. Facilities will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency.

Supporting facilities include primary electrical service and distribution. Utility systems include water, sewer, reclaimed water, gas connection and service from utility providers, and storm drainage systems. Site work consists of curb and gutter, walkways, pedestrian plazas, landscaping, and Low impact Development (LID) including storm water management features. Roadway and intersection improvements are included to integrate new facilities with existing transportation networks. Demolition of two buildings (B9827/B9828), associated parking, support structures, and minor site structures, along with standard clearing, grubbing, cut, fill, grading, and environmental protection structures will be provided. Secure communications infrastructure and cabling will be provided.

11. REQUIREMENT: 857,335 SF **ADQT:** 0 SF **SUBSTD:** 0 SF

PROJECT: Construct multi-story operations facility and structured parking facility.

REQUIREMENT: This facility is necessary to support mission operations and to further implement NSA's Recapitalization Plan. The NSA Recapitalization Plan calls for the phased replacement of aging and leased facilities that have exceeded their service life and can no longer support the technology required for new missions. Additionally, this facility will provide the NSA with a flexible building that can provide the modern infrastructure necessary to support current and future technological requirements. This facility will incorporate new technologies and processes that will generate valuable operational synergies through intra-agency coordination, integration, and collaboration. Using an open work environment that incorporates scalable, reconfigurable work spaces, missions will be able to achieve both actual and virtual collaboration while maintaining their functional discipline.

CURRENT SITUATION: Mission critical activities that support the DoD and the nation are conducted individually in disparate and dispersed facilities. Network operations are prevented from realizing the full potential of the collaborative, cohesive work environments required. Existing facilities are being reconfigured and supplemented through leased space. However, these efforts are limited by the availability of facilities with suitable locations, inadequate AT/FP profiles, and insufficient power and cooling infrastructure capable of supporting mission critical activities.

1. COMPONENT NSA/CSS	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MAR 2022
3. INSTALLATION AND LOCATION FORT GEORGE G. MEADE, MARYLAND		4. PROJECT TITLE: NSAW EAST CAMPUS BUILDING #4, INCREMENT 2	
5. PROGRAM ELEMENT	6. CATEGORY CODE 14190	7. PROJECT NUMBER 38608	8. PROJECT COST ($000) 378,000

IMPACT IF NOT PROVIDED: If this facility is not funded, NSA will continue to overburden existing facilities and infrastructure and operate in a disjointed mission configuration in a mix of antiquated space on Fort Meade and transient leased space distributed across a wide area, impeding the ability to effectively operate and meet its mission.

ADDITIONAL: This project is not sited in a 100-year flood plain.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design-Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	OCT 2019
(b) Percent Complete as of January 2022:	15%
(c) Design or RFP Complete:	APR 2021
(d) Total Design Cost ($000):	15,000
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used?	No
(3) Construction Data:	
(a) Contract Award:	APR 2022
(b) Construction Start:	MAR 2023
(c) Construction Complete:	MAR 2026

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

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Security, IT, AVVM	O&M	FY25	3,000
FFE, Security, IT, AVVM	O&M	FY26	30,000
FFE, Security, IT, AVVM	O&M	FY27	55,000
FFE, Security, IT, AVVM	O&M	FY28	45,000
FFE, Security, IT, AVVM	O&M	FY29	4,000

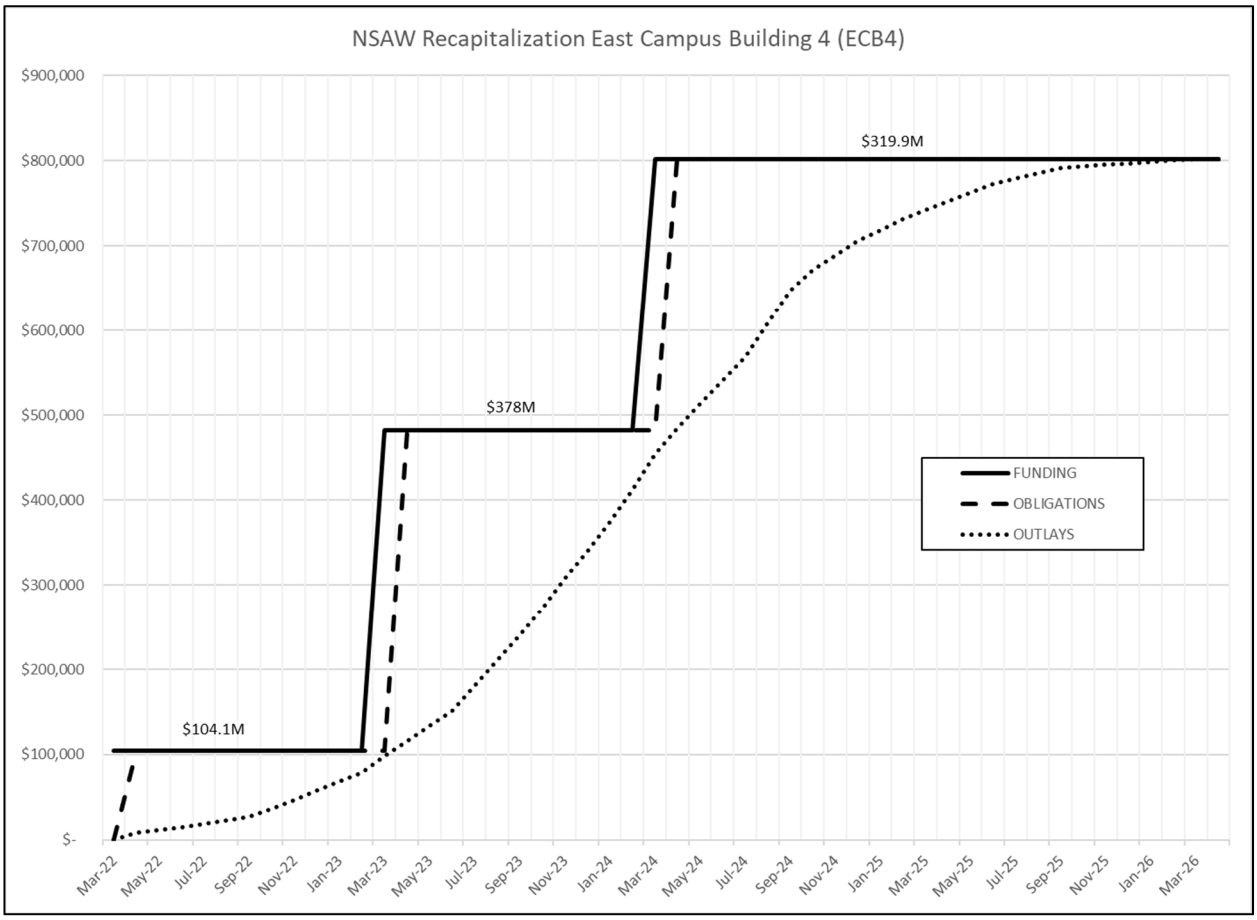
C. Authorization and Appropriation Summary:

	Authorization ($000)	Auth of Approp ($000)	Appro ($000)
FY 2022 Enacted	802,000	104,100	104,100
FY 2023 Request	-	378,000	378,000
Future Request	-	319,900	319,900
Total	802,000		802,000

Master Planning Office
Telephone: (443) 634-4109

DD FORM 1391, JUL 1999

PROJECT SPENDING PLAN FOR INCREMENTALLY FUNDED PROJECT							
PROJECT TITLE:		NSAW Recapitalization East Campus Building 4 (ECB4)					
As of:	Mar-22	FUNDING		OBLIGATIONS		OUTLAYS	
All costs in thousands ($000)							
Month-Year		Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
2022	Mar-22	$104,100	$ 104,100	$ -	$ -	$ -	$ -
	Apr-22	$ -	$ 104,100	$104,100	$ 104,100	$ 8,667	$ 8,667
	May-22	$ -	$ 104,100	$ -	$ 104,100	$ 3,219	$ 11,886
	Jun-22	$ -	$ 104,100	$ -	$ 104,100	$ 3,219	$ 15,105
	Jul-22	$ -	$ 104,100	$ -	$ 104,100	$ 4,105	$ 19,210
	Aug-22	$ -	$ 104,100	$ -	$ 104,100	$ 4,105	$ 23,316
	Sep-22	$ -	$ 104,100	$ -	$ 104,100	$ 4,105	$ 27,421
	Oct-22	$ -	$ 104,100	$ -	$ 104,100	$ 9,415	$ 36,836
	Nov-22	$ -	$ 104,100	$ -	$ 104,100	$10,472	$ 47,307
	Dec-22	$ -	$ 104,100	$ -	$ 104,100	$10,472	$ 57,779
2023	Jan-23	$ -	$ 104,100	$ -	$ 104,100	$10,472	$ 68,251
	Feb-23	$ -	$ 104,100	$ -	$ 104,100	$10,472	$ 78,722
	Mar-23	$378,000	$ 482,100	$ -	$ 104,100	$20,086	$ 98,809
	Apr-23	$ -	$ 482,100	$378,000	$ 482,100	$17,605	$ 116,413
	May-23	$ -	$ 482,100	$ -	$ 482,100	$16,548	$ 132,961
	Jun-23	$ -	$ 482,100	$ -	$ 482,100	$18,078	$ 151,039
	Jul-23	$ -	$ 482,100	$ -	$ 482,100	$29,377	$ 180,416
	Aug-23	$ -	$ 482,100	$ -	$ 482,100	$29,377	$ 209,792
	Sep-23	$ -	$ 482,100	$ -	$ 482,100	$29,377	$ 239,169
	Oct-23	$ -	$ 482,100	$ -	$ 482,100	$32,537	$ 271,706
	Nov-23	$ -	$ 482,100	$ -	$ 482,100	$36,455	$ 308,160
	Dec-23	$ -	$ 482,100	$ -	$ 482,100	$30,758	$ 338,919
2024	Jan-24	$ -	$ 482,100	$ -	$ 482,100	$34,676	$ 373,595
	Feb-24	$ -	$ 482,100	$ -	$ 482,100	$38,595	$ 412,190
	Mar-24	$319,900	$ 802,000	$ -	$ 482,100	$42,513	$ 454,702
	Apr-24	$ -	$ 802,000	$319,900	$ 802,000	$29,226	$ 483,929
	May-24	$ -	$ 802,000	$ -	$ 802,000	$29,226	$ 513,155
	Jun-24	$ -	$ 802,000	$ -	$ 802,000	$27,695	$ 540,850
	Jul-24	$ -	$ 802,000	$ -	$ 802,000	$27,695	$ 568,546
	Aug-24	$ -	$ 802,000	$ -	$ 802,000	$39,450	$ 607,996
	Sep-24	$ -	$ 802,000	$ -	$ 802,000	$39,450	$ 647,446
	Oct-24	$ -	$ 802,000	$ -	$ 802,000	$24,611	$ 672,056
	Nov-24	$ -	$ 802,000	$ -	$ 802,000	$16,774	$ 688,830
	Dec-24	$ -	$ 802,000	$ -	$ 802,000	$16,774	$ 705,605
2025	Jan-25	$ -	$ 802,000	$ -	$ 802,000	$12,856	$ 718,461
	Feb-25	$ -	$ 802,000	$ -	$ 802,000	$12,856	$ 731,317
	Mar-25	$ -	$ 802,000	$ -	$ 802,000	$10,343	$ 741,660
	Apr-25	$ -	$ 802,000	$ -	$ 802,000	$10,343	$ 752,002
	May-25	$ -	$ 802,000	$ -	$ 802,000	$10,343	$ 762,345
	Jun-25	$ -	$ 802,000	$ -	$ 802,000	$10,343	$ 772,688
	Jul-25	$ -	$ 802,000	$ -	$ 802,000	$ 6,425	$ 779,113
	Aug-25	$ -	$ 802,000	$ -	$ 802,000	$ 6,425	$ 785,537
	Sep-25	$ -	$ 802,000	$ -	$ 802,000	$ 6,425	$ 791,962
	Oct-25	$ -	$ 802,000	$ -	$ 802,000	$ 1,673	$ 793,635
	Nov-25	$ -	$ 802,000	$ -	$ 802,000	$ 1,673	$ 795,308
	Dec-25	$ -	$ 802,000	$ -	$ 802,000	$ 1,673	$ 796,981
2026	Jan-26	$ -	$ 802,000	$ -	$ 802,000	$ 1,673	$ 798,654
	Feb-26	$ -	$ 802,000	$ -	$ 802,000	$ 1,673	$ 800,327
	Mar-26	$ -	$ 802,000	$ -	$ 802,000	$ 1,673	$ 802,000
	Apr-26	$ -	$ 802,000	$ -	$ 802,000	$ -	$ 802,000


NSAW Recapitalization East Campus Building 4 (ECB4)
$900,000
$800,000
$700,000
$600,000
$500,000
$400,000
$300,000
$200,000
$100,000
$-
$104.1M
$378M
$319.9M
FUNDING
OBLIGATIONS
OUTLAYS
Mar-22
May-22
Jul-22
Sep-22
Nov-22
Jan-23
Mar-23
May-23
Jul-23
Sep-23
Nov-23
Jan-24
Mar-24
May-24
Jul-24
Sep-24
Nov-24
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Mar-25
May-25
Jul-25
Sep-25
Nov-25
Jan-26
Mar-26

1. COMPONENT NSA/CSS	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**	2. Date MAR 2022
3. INSTALLATION AND LOCATION FORT GEORGE G. MEADE, MARYLAND	4. PROJECT TITLE: MISSION OPERATIONS AND RECORDS CENTER INCREMENT 2	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	14169	38440	140,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				**237,325**
MISSION OPERATIONS FACILITY (CC 14169)	SF	251,405	$ 550.83	(138,482)
WAREHOUSE CONNECTOR (CC 14169)	SF	2,680	$ 688.92	(1,846)
RECORDS CENTER ADMIN (CC 61050)	SF	57,709	$ 560.58	(32,350)
HUMIDITY CONTROLLED RECORDS CENTER (CC 44230)	SF	27,249	$ 1,201.51	(32,740)
SPECIAL COSTS	LS			(7,227)
ANTITERRORISM/FORCE PROTECTION	LS			(19,565)
SUSTAINABILITY AND ENERGY FEATURES	LS			(4,520)
OMSI	LS			(595)
SUPPORTING FACILITIES				**16,905**
ELECTRIC SERVICE	LS			(3,951)
WATER, SEWER, GAS	LS			(969)
PAVING, WALKS, CURBS AND GUTTERS	LS			(2,234)
STORM DRAINAGE & LOW IMPACT DEVELOPMENT	LS			(1,932)
SITE IMPROVEMENTS (4,621) DEMOLITION (3,284)	LS			(7,095)
INFORMATION SYSTEMS	LS			(724)
ESTIMATED CONTRACT COST				**254,230**
CONTINGENCY (5.0%)				12,712
SUBTOTAL				**266,942**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH) (5.7%)				15,216
DESIGN/BUILD (4.0%)				10,169
OTHER (DESIGN DURING CONSTRUCTION)				6,673
TOTAL REQUEST				299,000
TOTAL REQUEST (ROUNDED)				**299,000**
PREVIOUS APPROPRIATIONS				94,000
CURRENT APPROPRIATION REQUEST				140,000
FUTURE APPROPRIATION REQUEST				65,000
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				36,400

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a mission support operations facility and a humidity controlled records center recapitalization facility.

The mission support operations facility includes workshops, storage areas, office and administrative space, and all required supporting facilities, connection to warehouse, utility connections, associated site work, and environmental measures. Office areas will include open flexible seating space, shared collaborative workspaces, administrative support spaces, and conference areas. The building will include core, shell structure, and foundations; elevators; electrical/mechanical service and distribution components and systems; fire protection, alarm, and suppression systems; information technology infrastructure, communications, and security systems support infrastructure; exterior

1. COMPONENT NSA/CSS	FY 2023 MILITARY CONSTRUCTION PROJECT DATA		2. Date MAR 2022
3. INSTALLATION AND LOCATION FORT GEORGE G. MEADE, MARYLAND		4. PROJECT TITLE: MISSION OPERATIONS AND RECORDS CENTER INCREMENT 2	
5. PROGRAM ELEMENT	6. CATEGORY CODE 14169	7. PROJECT NUMBER 38440	8. PROJECT COST ($000) 140,000

finishes and weatherproofing. Interior build out will provide raised access floor systems, acoustically-rated interior partitions and ceilings, power, lighting, environmental controls, and communications.

The records center replacement will be constructed in compliance with the National Archives and Records Administration (NARA) Facility Standards for Records Storage (36 CFR §1228 subpart K). It will be a two-story reinforced concrete slab on grade and steel braced frame structure with administrative workspaces for records management and archival functions including office suites, flexible and shared workstations, a records processing center, conference rooms, historical collection spaces, breakrooms, lockers, and required building support spaces. The facility will also include a high-bay (30-foot), controlled humidity records and storage module with a cold storage room. The storage areas will have super-flat concrete floors, fixed shelving with integrated fire suppression systems, open storage and warehouse spaces for shipping and receiving, decontamination, records staging, packaging, forklift charging and records destruction. Administrative spaces will have raised access floors for distribution of electrical, telecommunications, security, and mechanical systems.
Both facilities will be built to sensitive compartmented information facility (SCIF) standards, with redundant primary power and uninterruptable power supply (UPS) systems for mission critical systems. Construction estimates incorporate special costs associated with construction on a secure site, clearances for personnel, and labor inefficiencies associated with escort requirements.

Facility physical security will conform to DOD anti-terrorism standards for buildings. Anti-terrorism force protection (ATFP) measures include access control systems, setbacks, blast resistant exterior, intrusion detection systems (IDS), progressive collapse requirements, and compliance with ATFP regulations. DoD principles for high performance and sustainable building requirements, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with applicable laws and Executive Orders. Mechanical systems will be selected through energy modeling and life cycle cost analysis (LCCA) with the goal of maximizing energy efficiency, while meeting the facility requirements.

Supporting facilities include primary electric service and distribution, water, sewer and gas connections and services. Paved areas include road widening, reconfiguration, and modifications to existing roads and loading dock aprons will be included to modernize and improve the existing site traffic infrastructure. Storm drainage and low impact development will be provided with bio-retention and other storm water management features, Site improvements include fencing, landscaping, and upgrades for access control structures. Additional site improvement consists of curbs and gutters, walkways. Site preparation includes demolition of existing structures, standard clearing, grubbing, cut, fill, grading, and environmental protection structures Secure communications infrastructure and cabling will be provided. Secure communications infrastructure and cabling will be provided.

11. REQUIREMENT: 339,043 SF **ADQT:** 0 SF **SUBSTD:** 191,255 SF

PROJECT: Construct a mission support operations facility and a records center.

REQUIREMENT: These facilities are necessary to support mission operations and to further implement NSA's Recapitalization Plan. The NSA Recapitalization Plan calls for the phased replacement of aging facilities and leased spaces that have exceeded their service life and can no longer support the technology required for missions.

The records center is required to provide a facility to store over 150,000 cubic feet of temporary and permanent classified and controlled access records in a NARA approved Records Center that meets all structural, environmental, life safety and records protection requirements. Proper handling and storage of federal records require secure, climate-controlled, high-bay storage with associated administration and handling functions meeting the NARA requirements.

CURRENT SITUATION: Mission critical activities that support the DOD and the nation are conducted in undersized, improperly configured, and technologically obsolescent facilities. New and emergent mission requirements are prevented from realizing their full potential due to inadequate space, improper configuration, poor condition, and

1. COMPONENT NSA/CSS	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. Date MAR 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT GEORGE G. MEADE, MARYLAND	MISSION OPERATIONS AND RECORDS CENTER INCREMENT 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	14169	38440	140,000

obsolete systems. Existing facilities are being reconfigured and supplemented through a variety of re-purposed spaces. However, these efforts are limited because currently available facilities are inadequate to support mission critical activities.

Records are currently stored in two separate facilities that were retrofitted approximately 40 years ago. These facilities were determined to be non-compliant with NARA Standards in 2005 and have exceeded their useful life and are slated for demolition beginning in 2020. The Agency has spent over $50M to correct some of the deficiencies, but renovations cannot bring the existing facilities into compliance. No other facilities meet the requirements or would be cost-effective to retrofit.

IMPACT IF NOT PROVIDED: NSA will continue to overburden existing facilities and infrastructure and continue to operate in a disjointed and inefficient mission configuration. Operating groups will continue to use a mix of antiquated spaces distributed across a wide area, impeding their ability to effectively operate, collaborate, and accomplish their mission. In addition, critical cryptologic and historic records will be subject to damage or loss if there is a fire, infestation, or other catastrophic event.

ADDITIONAL: This project is not sited in a 100-year flood plain.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design/Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	APR 2020
(b) Percent of Design Completed as of January 2022:	15%
(c) Design or RFP Complete:	JUN 2021
(d) Total Design Cost ($000):	8,500
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used:	No
(3) Construction Data:	
(a) Contract Award:	MAY 2022
(b) Construction Start:	NOV 2022
(c) Construction Complete:	DEC 2025

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

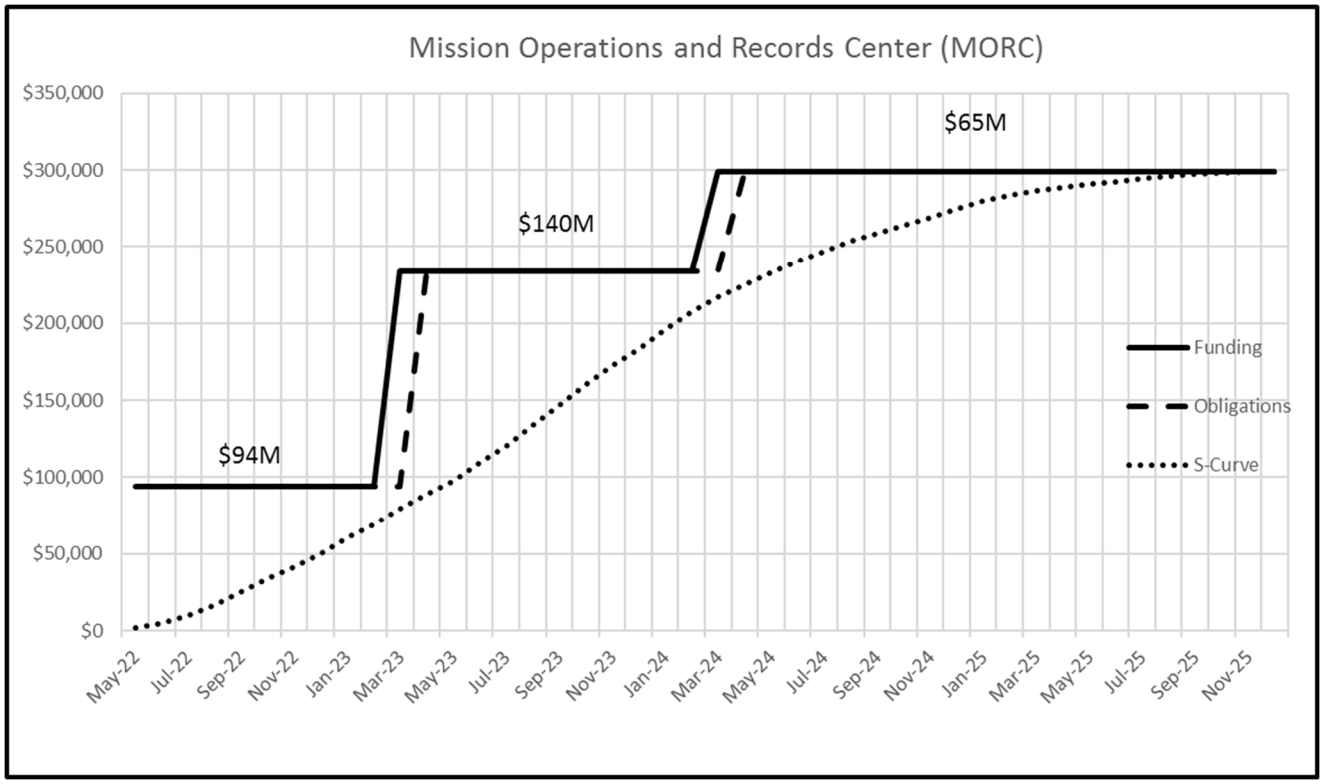
Equipment Nomenclature	Procuring Appropriation	FY Appropriated of Requested	Cost ($000)
FFE, Security, IT, AVVM	O&M	2024	9,750
FFE, Security, IT, AVVM	O&M	2025	19,050
FFE, Security, IT, AVVM	O&M	2026	7,600

C. Authorization and Appropriation Summary:

FY 2022 Enacted	299,000	94,000	94,000
FY 2023 Request	-	140,000	140,000
Future Request	-	65,000	65,000
Total	299,000		299,000

Master Planning Office, Telephone: (443) 634-4109

PROJECT SPENDING PLAN FOR INCREMENTALLY FUNDED PROJECT							
PROJECT TITLE:		Mission Operations and Records Center (MORC)					
As Of:	1-Mar-22	FUNDING		OBLIGATIONS		OUTLAYS	
All costs in thousands ($000)							
	Month-Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
2022	Apr-22						
	May-22	$ 94,000	$ 94,000	$ -	$ -	$ -	$ -
	Jun-22	$ -	$ 94,000	$ 94,000	$ 94,000	$ 1,896	$ 1,896
	Jul-22	$ -	$ 94,000	$ -	$ 94,000	$ 3,053	$ 4,949
	Aug-22	$ -	$ 94,000	$ -	$ 94,000	$ 5,245	$ 10,194
	Sep-22	$ -	$ 94,000	$ -	$ 94,000	$ 6,317	$ 16,511
	Oct-22	$ -	$ 94,000	$ -	$ 94,000	$ 8,458	$ 24,969
	Nov-22	$ -	$ 94,000	$ -	$ 94,000	$ 8,923	$ 33,892
	Dec-22	$ -	$ 94,000	$ -	$ 94,000	$ 7,688	$ 41,579
2023	Jan-23	$ -	$ 94,000	$ -	$ 94,000	$ 8,917	$ 50,496
	Feb-23	$ -	$ 94,000	$ -	$ 94,000	$ 10,202	$ 60,698
	Mar-23	$ 140,000	$ 234,000	$ -	$ 94,000	$ 8,819	$ 69,517
	Apr-23	$ -	$ 234,000	$ 140,000	$ 234,000	$ 10,156	$ 79,673
	May-23	$ -	$ 234,000	$ -	$ 234,000	$ 8,968	$ 88,641
	Jun-23	$ -	$ 234,000	$ -	$ 234,000	$ 9,336	$ 97,977
	Jul-23	$ -	$ 234,000	$ -	$ 234,000	$ 11,728	$ 109,705
	Aug-23	$ -	$ 234,000	$ -	$ 234,000	$ 11,067	$ 120,773
	Sep-23	$ -	$ 234,000	$ -	$ 234,000	$ 12,960	$ 133,733
	Oct-23	$ -	$ 234,000	$ -	$ 234,000	$ 12,910	$ 146,643
	Nov-23	$ -	$ 234,000	$ -	$ 234,000	$ 13,252	$ 159,895
	Dec-23	$ -	$ 234,000	$ -	$ 234,000	$ 12,217	$ 172,112
2024	Jan-24	$ -	$ 234,000	$ -	$ 234,000	$ 11,227	$ 183,338
	Feb-24	$ -	$ 234,000	$ -	$ 234,000	$ 12,704	$ 196,042
	Mar-24	$ 65,000	$ 299,000	$ -	$ 234,000	$ 11,429	$ 207,470
	Apr-24	$ -	$ 299,000	$ 65,000	$ 299,000	$ 9,644	$ 217,114
	May-24	$ -	$ 299,000	$ -	$ 299,000	$ 8,289	$ 225,402
	Jun-24	$ -	$ 299,000	$ -	$ 299,000	$ 7,936	$ 233,338
	Jul-24	$ -	$ 299,000	$ -	$ 299,000	$ 7,113	$ 240,451
	Aug-24	$ -	$ 299,000	$ -	$ 299,000	$ 6,450	$ 246,900
	Sep-24	$ -	$ 299,000	$ -	$ 299,000	$ 6,450	$ 253,350
	Oct-24	$ -	$ 299,000	$ -	$ 299,000	$ 5,378	$ 258,728
	Nov-24	$ -	$ 299,000	$ -	$ 299,000	$ 4,970	$ 263,697
	Dec-24	$ -	$ 299,000	$ -	$ 299,000	$ 5,452	$ 269,150
2025	Jan-25	$ -	$ 299,000	$ -	$ 299,000	$ 5,802	$ 274,952
	Feb-25	$ -	$ 299,000	$ -	$ 299,000	$ 4,810	$ 279,762
	Mar-25	$ -	$ 299,000	$ -	$ 299,000	$ 4,156	$ 283,919
	Apr-25	$ -	$ 299,000	$ -	$ 299,000	$ 2,617	$ 286,536
	May-25	$ -	$ 299,000	$ -	$ 299,000	$ 2,477	$ 289,013
	Jun-25	$ -	$ 299,000	$ -	$ 299,000	$ 1,803	$ 290,816
	Jul-25	$ -	$ 299,000	$ -	$ 299,000	$ 1,803	$ 292,619
	Aug-25	$ -	$ 299,000	$ -	$ 299,000	$ 2,116	$ 294,735
	Sep-25	$ -	$ 299,000	$ -	$ 299,000	$ 1,532	$ 296,266
	Oct-25	$ -	$ 299,000	$ -	$ 299,000	$ 1,194	$ 297,461
	Nov-25	$ -	$ 299,000	$ -	$ 299,000	$ 902	$ 298,363
	Dec-25	$ -	$ 299,000	$ -	$ 299,000	$ 614	$ 298,977
2026	Jan-26	$ -	$ 299,000	$ -	$ 299,000	$ 23	$ 299,000


Mission Operations and Records Center (MORC)
$350,000
$300,000
$250,000
$200,000
$150,000
$100,000
$50,000
$0
$94M
$140M
$65M
Funding
Obligations
S-Curve
May-22
Jul-22
Sep-22
Nov-22
Jan-23
Mar-23
May-23
Jul-23
Sep-23
Nov-23
Jan-24
Mar-24
May-24
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Sep-24
Nov-24
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Mar-25
May-25
Jul-25
Sep-25
Nov-25

U.S. Special Operations Command
FY 2023 Military Construction, Defense-Wide
($ In Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page Number
California				
Naval Base Coronado				
SOF Operations Support Facility	75,712	75,712	C	66
Florida				
Hurlburt Field				
SOF Human Performance Training Center	9,100	9,100	C	71
North Carolina				
Fort Bragg				
SOF Operations Building	18,870	18,870	C	75
SOF Supply Support Activity	15,600	15,600	C	79
Virginia				
Dam Neck				
SOF Operations Building Addition	26,600	26,600	C	83
Germany				
Baumholder				
SOF Support Annex	21,902	21,902	C	87
SOF Operations Annex	23,768	23,768	C	90
SOF Communications Annex	9,885	9,885	C	94
SOF Battalion Annex	22,468	22,468	C	97
Japan				
Yokota Air Base				
PDI: Operations and Warehouse Facilities	72,154	72,154	C	101
Total	**296,059**	**296,059**		

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE (YYYY MMDD)
DEF (USSOCOM)		MARCH 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
NAVAL BASE CORONADO, CALIFORNIA	NAVAL SPECIAL WARFARE COMMAND	1.05

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 20210930	443	2552	515	0	0	0	0	0	0	3,510
b. END FY27	443	2512	514	0	0	0	0	0	0	3,469

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	1,907
b. INVENTORY TOTAL AS OF 20210930	898,412
c. AUTHORIZATION NOT YET IN INVENTORY	104,788
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	75,712
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	41,700
f. PLANNED IN NEXT THREE PROGRAM YEARS	26,500
g. REMAINING DEFICIENCY	62,700
h. GRAND TOTAL	1,209,812

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST ($000)	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
143	SOF OPERATIONS SUPPORT FACILITY	7,432 SM (80,000 SF)	75,712	11/2020	01/2022

9. FUTURE PROJECTS

143	SOF OPERATIONS SUPPORT FACILITY	2,889 SM (31,100 SF)	41,697		
171	SOF SERE TRAINING FACILITY	3,716 SM (40,000 SF)	26,500		

10. MISSION OR MAJOR FUNCTIONS

The mission of Naval Base Coronado is to arm, repair, provision, service and support the U.S. Pacific Fleet and other operating forces.

The mission of Naval Special Warfare Command is to organize, man, train, equip, educate, sustain, maintain combat readiness and deploy Naval Special Warfare Forces to accomplish Special Operations Missions.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAVAL BASE CORONADO, CALIFORNIA	SOF OPERATIONS SUPPORT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	143	P-821	75,712

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				51,888
OPERATIONS SUPPORT FACILITY (CC 14380) (80,000 SF)	SM	7,432	6,319	(46,963)
ANTI-TERRORISM/FORCE PROTECTION	LS	--	--	(800)
SPECIAL COSTS	LS	--	--	(2,800)
OPERATION AND MAINTENANCE SUPPORT INFO (OMSI)	LS	--	--	(200)
SUSTAINABILITY AND ENERGY FEATURES	LS	--	--	(625)
CYBERSECURITY MEASURES	LS	--	--	(500)
SUPPORTING FACILITIES				13,957
UTILITIES	LS	--	--	(1,007)
SITE PREPARATION	LS	--	--	(3,200)
ROADS, SIDEWALKS AND PARKING	LS	--	--	(2,500)
SITE IMPROVEMENTS	LS	--	--	(3,500)
SPECIAL FOUNDATION FEATURES	LS	--	--	(2,250)
DEMOLITION (65,600 SF)	SM	6,093	246	(1,500)
ESTIMATED CONTRACT COST				65,845
CONTINGENCY (5%)				3,292

SUBTOTAL				69,137
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				3,941

SUBTOTAL				73,078
DESIGN/BUILD - DESIGN COST (4%)				2,634

TOTAL REQUEST				75,712
TOTAL REQUEST (ROUNDED)				75,712
EQUIPMENT FROM OTHER APPROPRIATIONS				(10,000)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Constructs an Echelon II Operations Facility for Naval Special Warfare Command (NSWC) on the Ocean Side of Naval Amphibious Base (NAB) Coronado. Demolishes Buildings 603, 603M, and T603, totaling approximately 5,350 SM (57,600 SF). Demolishes the Naval Base Coronado Recreation Pavilions, Buildings 1204, 1205, 1206, 1214, 1215, 1216, 1217, and Buildings 1217 A/B/C/D/E/F totaling 743 SM (8,000 SF). Construction will consist of tilt up concrete walls on a pile foundation with a single ply roof. Facility will support a variety of functions including operations support, applied instruction, and communications storage. Special costs include temporary modular facilities to accommodate NSWC HQ staff during construction and conduit for Physical Security Equipment. Project

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAVAL BASE CORONADO, CALIFORNIA	SOF OPERATIONS SUPPORT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	143	P-821	75,712

includes all pertinent site improvements and site preparations, mechanical and electrical utilities, telecommunications, pile foundation, emergency generator, landscaping, irrigation, drainage, fencing, parking and exterior lighting. Department of Defense (DoD) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development features will be included in the design and construction of this project as appropriate. This project will provide Anti-Terrorism/Force Protection (AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Appropriate cybersecurity measures will be applied to the facility-related control systems in accordance with current DoD criteria.

11. Requirement: 10,312 SM (111,000 SF) **Adequate:** 0 SM **Substandard:** 10,646 SM (115,000 SF)

PROJECT: Constructs an Echelon II Operations Facility for NSWC on the ocean side of NAB Coronado.
REQUIREMENT: NSWC is the Maritime Component of the United States Special Operations Command (USSOCOM) and has the mission to man, train, equip, educate, deploy, and sustain forces to conduct primarily direct action and special reconnaissance core activities, and to build partner capacity in or out of the maritime environment**,** in order to support USSOCOM, the U.S. Navy, Geographic Combatant Commanders, and ultimately, national objectives across a full range of political and operational environments. Project consolidates higher Headquarters for seven Echelon III Commands, Naval Special Warfare Groups ONE, TWO, THREE, FOUR, TEN, ELEVEN and the Naval Special Warfare Center. Enables command and control from garrison and remotely for operations that carry high political, strategic, and military risk. Facilitates certification, verification, and validation of NSW forces. This is the first phase of a 2-phase project and is operations centric. Phase I will include a secure annex that will accommodate the Flag Deck, N2 (Intelligence), N3 (Operations), N5 (Plans) and N9 (Innovation) as well as additional staff support spaces.
CURRENT SITUATION: NSWC HQ staff are currently accommodated in eleven undersized and poorly configured facilities scattered across NAB Coronado divided by a state highway. Three of these facilities are temporary modular facilities. The four core NSWC facilities, buildings 624, 401, 603 and 603M have a variety of issues. Building 624, the main NSWC facility, lacks the ability to meet departmental adjacencies of an Echelon II Headquarters. Building 624 does not have a single HVAC system that feeds the whole building, causing problems with maintenance and issues with internal modifications and adjustments. Exposure to the corrosive maritime environment corrodes the HVAC units and generators, shortening their lifespan. HVAC systems feeding the flag deck, secure annex, and certain server rooms fail on a regular basis. Failures are caused by motor burnout, blown fuses, and condensers icing over due to the system overworking. There have been leaks within the walls on both the 1st and 2nd decks of Building 624 caused by the interior roof drainpipes. Additionally, there are leaks around the windows on the West side of the facility caused by winter storms. Building 603M, one of the temporary modular facilities was procured in 2006 and has long exceeded its useful life. Consistent plumbing issues cause facility damage due to overflowing urinals and toilets on the 2nd deck. The 3.5-ton package HVAC units require constant maintenance, to include filter replacement and entire unit replacement. Building 603 was constructed in 1970 and has also long exceeded its useful life. Portions of the building have had CO2 levels above 4,000

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAVAL BASE CORONADO, CALIFORNIA	SOF OPERATIONS SUPPORT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	143	P-821	75,712

PPM (approximately 10 times the normal level), and there is no centralized HVAC system. The repair to this problem pulls "fresh" air from a hallway in the building, not from the outside. There are concerns with indoor air quality, particularly mold on the 2nd deck of this building. Building 401 also has serious indoor air quality issues. CO2 levels have reached unhealthy levels and dust has caused personnel to have negative health reactions to the indoor environment. Lack of air conditioning creates excessive temperatures in the summertime, security waiver is in place allowing the windows to open while the spaces are occupied, and security concerns prevent leaving exterior doors open. In April 2010, USSOCOM J34-RM (Mission Assurance – Risk Management Branch) conducted a blast analysis of Building 624, the main NSWC facility which recommended AT/FP improvements and upgrades to mitigate risk of a Vehicle Borne Improvised Explosive Device (VBIED) due to the blast analysis results and siting 66 feet from the installation perimeter boundary that is directly adjacent to a public thoroughfare. Regardless of upgrades required to mitigate risk of a VBIED, risk to personnel and assets are too great for an Echelon II Command Headquarters to continue to utilize a facility directly adjacent to a public thoroughfare. Additionally, this limited setback and adjacency to a public thoroughfare coupled with the mid-rise condominiums adjacent to this public thoroughfare present significant OPSEC concerns.

IMPACT IF NOT PROVIDED: If this project is not provided, NSWC will continue to utilize fragmented, obsolete, under-sized and poorly configured facilities scattered across NAB Coronado, divided by a state highway. Command & Control of seven NSW Echelon III Commands will remain inefficient. Respiratory issues resulting from mold and unhealthy CO2 levels will continue to negatively affect health of NSWC HQ staff. Personnel in Building 624 will continue to be at risk of a VBIED attack with limited stand-off distance from installation perimeter boundary and public thoroughfare. This limited setback and adjacency to a public thoroughfare coupled with the mid-rise condominiums adjacent to this public thoroughfare present significant OPSEC concerns

ADDITIONAL: No life cycle costs have been calculated at this time. This project is in compliance with current seismic requirements. Flood vulnerability determination for NSWC projects has been accomplished by Naval Base Coronado and is part of the project planning process. Project is not sited in the 100 year floodplain.

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. Supplemental Data:

A. Estimated Execution Data:	
(1) Acquisition Strategy:	Design Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	Nov 20
(b) Percent of Design Completed as of Jan 2022:	35%
(c) Design or RFP Complete:	Jan 22
(d) Total Design Cost ($000):	3,600
(e) Energy Study and/or Life Cycle Analysis Performed:	No
(f) Standard or Definitive Design Used:	No
(3) Construction Data:	

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAVAL BASE CORONADO, CALIFORNIA	SOF OPERATIONS SUPPORT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	143	P-821	75,712

(a) Contract Award: Apr 23
(b) Construction Start: Jun 23
(c) Construction Complete: Jun 25

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Collateral Equipment	O&M, D-W	2025	4,250
C4I Equipment	O&M, D-W	2025	1,750
Collateral Equipment	PROC, D-W	2024	1,000
C4I Equipment	PROC, D-W	2024	3,000

Naval Special Warfare Command
Telephone: (619) 537-1050
This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (USSOCOM)		MARCH 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
HURLBURT FIELD, FLORIDA	AIR FORCE SPECIAL OPERATIONS COMMAND	0.88

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 20210930	1,173	5,334	1,294	185	151	0	448	1,474	449	10,508
b. END FY27	1,271	4,913	1,273	185	151	0	456	1,496	461	10,206

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	6,320
b. INVENTORY TOTAL AS OF 20210930	2,802,730
c. AUTHORIZATION NOT YET IN INVENTORY	258,300
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	9,100
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
f. PLANNED IN NEXT THREE PROGRAM YEARS	40,000
g. REMAINING DEFICIENCY	286,700
h. GRAND TOTAL	3,396,830

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST *($000)*	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
171	SOF HUMAN PERFORMANCE TRAINING CENTER	1,440 SM (15,500 SF)	9,100	05/19	08/22

9. FUTURE PROJECTS

113	SOF PARKING APRON (AC-130J)	58,774 SM (632,700 SF)	40,000		

10. MISSION OR MAJOR FUNCTIONS

Hurlburt Field supports MC-130, AC-130, CV-22, Non-Standard Aviation (NSA), and special operations squadrons. The 1st Special Operations Wing plans and executes specialized and contingency operations in support of national priorities. The wing's core missions include close air support, precision aerospace firepower, specialized aerospace mobility, intelligence, surveillance and reconnaissance (ISR) operations, and agile combat support.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

DD FORM 1390, JUL 1999

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
HURLBURT FIELD, FLORIDA	SOF HUMAN PERFORMANCE TRAINING CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	171	FTEV123008	9,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				7,274
HUMAN PERFORMANCE TRAINING CTR (CC14145) (15,500 SF)	SM	1,440	4,782	(6,886)
CYBERSECURITY MEASURES	LS	--	--	(250)
SUSTAINABILITY AND ENERGY FEATURES	LS	--	--	(138)
SUPPORTING FACILITIES				925
UTILITIES	LS	--	--	(216)
SITE IMPROVEMENTS	LS	--	--	(381)
PAVEMENTS	LS	--	--	(280)
COMMUNICATION	LS	--	--	(13)
AT/FP/PHYSICAL SECURITY MEASURES	LS	--	--	(35)

ESTIMATED CONTRACT COST				8,199
CONTINGENCY (5%)				410

SUBTOTAL				8,609
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				491

TOTAL REQUEST				9,100
TOTAL REQUEST (ROUNDED)				9,100
EQUIPMENT FROM OTHER APPROPRIATIONS				(815)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Constructs a SOF Human Performance Training Center (HPTC). Construction includes foundation and floor slab, structural framing, insulated walls, sloped roof, environmental control, fire detection and suppression and all necessary support. Functional areas include offices, classroom, cardiovascular and strength training areas, physical therapy, storage, an exterior multi-purpose training area, restrooms, etc. Includes utilities, pavements (roadway and parking), site improvements, communications, passive force protection and all other necessary support. Department of Defense (DoD) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development features will be included in the design and construction of this project as appropriate. This project will provide Anti-Terrorism/Force Protection (AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum AT/FP features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Appropriate cybersecurity measures will be applied to the facility-related control systems in accordance with current DoD criteria.

11. Requirement: 25,982 SM 280,000 SF) **Adequate:** 24,542 SM (264,000 SF) **Substandard:** 0 SM (0 SF)

PROJECT: Construct Human Performance Training Center for Special Tactics Operators.

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
HURLBURT FIELD, FLORIDA	SOF HUMAN PERFORMANCE TRAINING CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	171	FTEV123008	9,100

REQUIREMENT: Special Tactics operators (Combat Controllers, Pararescue, Special Reconnaissance, and Tactical Air Control Party) require approximately three years of pipeline and Advanced Skills Training to qualify for assignment to a Special Tactics Squadron. Their unique skill sets allow them to function as the ground maneuver element to enable air/ground integration of air power effects, support control of combat aircraft engaging in close air support, airfield assessment and control, personnel recovery, and environmental weather and reconnaissance worldwide. The highly demanding physical and mental requirements of on-going training and deployments add to the stress on these high demand/low supply individuals. By constructing a purpose-built HPTC, the operators are able to integrate mission specific physical and mental preparation and training into their daily ops tempo. The HPTC also leads to an accelerated return to duty after injury with monitored post-clinic release physical therapy and helps lower the squadrons overall injury rate and severity, by providing a trained performance staff that provides capability focused training.

CURRENT SITUATION: An existing purpose-built facility is not available for the HPTC. As in interim measure a warehouse was converted and is undersized by almost 9,000 SF; a 60 percent space deficit. Even with staggered show times, there is not enough capacity to train all operators. Due to the limited space, the current facility does not allow maximization of the skills offered by the performance and physical therapy specialists due to the inability to fully accommodate physical therapy, hydrotherapy, and strength training equipment as well as the operators themselves. Physical therapy lacks appropriate privacy due to lack of space. HPTC throughput is limited to 30 of 45 operators per session.

IMPACT IF NOT PROVIDED: The current facility is not sufficient to meet the operator's strength and rehabilitation training requirements. The athletic trainer and physical therapist will continue to work in a less than efficient environment; hindering implementation of this critical program that aims to prevent or minimize injuries and accelerate return to duty. This insufficiency will limit the number of deployable personnel available to the squadron, which in turn limits Air Force Special Operations Command's ability to rapidly provide fully trained and qualified special tactics support for worldwide deployment and the assignment to regional unified commands. The facility shortfalls also potentially impact the availability of combat controllers with other service Special Operations Forces (SOF) to form versatile joint special operations teams.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. Alternative methods of meeting this requirement have been explored during project development and this project is the most feasible option. Project is not sited in a 100-year floodplain.

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. SUPPLEMENTAL DATA:

A. Estimated Execution Data	
(1) Acquisition Strategy	Design-Bid-Build
(2) Design Data	
(a) Design or Request for Proposal (RFP) Started	May 19
(b) Percent Complete as of January 2022	90%
(c) Design or RFP Complete:	Aug 22
(d) Total Design Cost ($000)	910
(e) Energy Study and Life Cycle Analysis Performed	No
(f) Standard or definitive design used?	No
(3) Construction Data	
(a) Contract Award	Apr 23

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
HURLBURT FIELD, FLORIDA	SOF HUMAN PERFORMANCE TRAINING CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	171	FTEV123008	9,100

(b) Construction Start Jun 23
(c) Construction Complete Jun 25

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Collateral Equipment	O&M, D-W	2025	772
C4I Equipment	O&M, D-W	2025	43

Air Force Special Operations Command
Telephone: (850) 884-2371
This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (USSOCOM)		MARCH 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
FORT BRAGG, NORTH CAROLINA	JOINT SPECIAL OPERATIONS COMMAND	0.93

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 20210930	407	961	762	0	0	0	0	0	0	2130
b. END FY27	429	961	762	0	0	0	0	0	0	2152

a. TOTAL ACREAGE (acre)	399
b. INVENTORY TOTAL AS OF 20210930	327,621
c. AUTHORIZATION NOT YET IN INVENTORY	104,097
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	18,870
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
f. PLANNED IN NEXT THREE PROGRAM YEARS	156,000
g. REMAINING DEFICIENCY	388,800
h. GRAND TOTAL	995,388

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST *($000)*	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
141	SOF OPERATIONS BUILDING	2,345 SM (25,260 SF)	18,870	01/2020	12/2021

9. FUTURE PROJECTS

140	SOF MISSION COMMAND CENTER	7,432 SM (80,000 SF)	80,000		
421	SOF OPERATIONAL AMMUNITION SUPPLY POINT	17,466 SM (188,000 SF)	76,000		

10. MISSION OR MAJOR FUNCTIONS

The Joint Special Operations Command is a joint headquarters designed to study special operations requirements and techniques; ensure operability and equipment standardization; plan and conduct special operations exercises and training; and develop joint special operations tactics. Fort Bragg Installation's mission is supporting and training of 18th Airborne Corps, major combat and combat support forces, special operations forces, reserve component training, and other tenant and satellite activities and units.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL DD-A&T(A)1610
USSOCOM		MAR 2022	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT BRAGG, NORTH CAROLINA	SOF OPERATIONS BUILDING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140415BB	141	92793	18,870

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				15,171
SOF OPERATION BUILDING (CC 14182) (25,260 SF)	SM	2,345	5,946	(13,944)
CYBERSECURITY MEASURES	LS			(750)
IDS INSTALLATION	LS			(169)
EMCS CONNECTION	LS			(58)
SUSTAINABILITY/ENERGY MEASURES	LS			(250)
SUPPORTING FACILITIES				1,824
ELECTRIC SERVICE	LS	--	--	(278)
WATER, SEWER, GAS	LS	--	--	(275)
PAVING, WALKS, CURBS AND GUTTERS	LS	--	--	(121)
STORM DRAINAGE	LS	--	--	(150)
SITE IMP	LS	--	--	(750)
INFORMATION SYSTEMS	LS	--	--	(250)
ESTIMATED CONTRACT COST				16,995
CONTINGENCY (5%)				850
SUBTOTAL				17,845
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,017
TOTAL REQUEST				18,862
TOTAL REQUEST (ROUNDED)				18,870
EQUIPMENT FROM OTHER APPROPRIATIONS				(3,100)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Constructs an Operations Building. Project includes administrative, caged storage area with roll up doors and a SCIF with administrative areas conference room, technical lab, and collaborative space. Project will also provide fire alarm/mass notification, fire suppression system, telephone and advanced unclassified and classified communications networks, intercom system, closed circuit surveillance and electronic access control systems, integrated commercial intrusion detection system, cable TV, a protected distribution system, and connection to the energy management control system. Department of Defense (DoD) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development features will be included in the design and construction of this project as appropriate. Supporting facilities include site development, utilities and connections, lighting, lightning protection system, walks, curbs and gutters, vehicle parking, access road, bus access area, storm drainage, landscaping, fencing and other site improvements. Supporting facilities are costlier due to long utility runs to the remote project site. Heating and air conditioning will be provided by a self-contained system. Measures in accordance with the DoD Minimum Antiterrorism for Buildings standards will be provided. Facilities will be designed to a minimum life of 40 years in accordance with DoD's Unified Facilities Code (UFC 1-200-02) including energy efficiencies, building envelope and integrated building systems performance. Comprehensive building and furnishings related interior design services are required. Electronic security systems and audio-visual services are included. Cyber

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT BRAGG, NORTH CAROLINA	SOF OPERATIONS BUILDING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140415BB	141	92793	18,870

security measures will be incorporated into this project. Sustainability/Energy measures will be provided. Access for persons with disabilities will be provided. Comprehensive interior design and audio-visual services are included. No demolition or disposal is included in this project.

11. Requirement: 2345 SM (25,260 SF) **Adequate:** 0 SM (0 SF) **Substandard:** 2345 SM (25,260 SF)

PROJECT: Construct an Operations Building at Fort Bragg, NC.

REQUIREMENT: Adequate facilities are required to accommodate operations space for the Air Force. Administrative and storage space is required due to new mission growth which cannot be accommodated within the currently programmed facilities. Consolidation of the mission into one facility greatly enhances the organization's ability to align and facilitate mission operations and increases work efficiencies.

CURRENT SITUATION: The user is currently located in five separate facilities creating substantial operational inefficiencies and a severe lack of adequate space that diminish the functional capacity of the organization. Facilities are 40+ years old and inhibit growth and increases maintenance and operational costs. The intent is to collocate the new mission growth and unit storage requirements. This facility is tied to new mission growth that necessitates the increase in administrative space, and operational storage due to command personnel growth of 40%.

IMPACT IF NOT PROVIDED: If this project is not provided, the unit will not be able to fully support their unique special operations missions. No current facilities exist that would allow for the complete consolidation of the unit's personnel and equipment. The user will remain severely hindered in their ability to conduct operations needed to optimize the unit's capability to meet urgent national security missions. Organizational effectiveness, operational efficiency, and unit morale will risk degradation by continued use of substandard and poorly configured facilities.

ADDITIONAL: Alternative methods of meeting this requirement have been explored during project development. This project is the only feasible option to meet the requirement. An economic analysis has been prepared and utilized in evaluating this project, and has determined to be the only viable option to satisfy the requirement. The project will be designed and constructed in accordance with Unified Facilities Criteria, Installation Architectural Compatibility Plan, other applicable DoD criteria, Army regulations, and applicable Federal and state environmental laws and regulations. This project will provide Anti-Terrorism/Force Protection (AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. The project site flood vulnerability determination has been accomplished by the installation and will be part of the project planning process; project site is located above the 100-year flood plain.

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. Supplemental Data:

A. Estimated Execution Data	
(1) Acquisition Strategy:	Design Bid Build
(2) Design Data	
(a) Design or Request for Proposal (RFP) Started:	Jan 2020
(b) Percent of Design Completed as of Jan 2022	100%
(c) Design or RFP Complete:	Dec 21

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL DD-A&T(A)1610
USSOCOM		MAR 2022	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT BRAGG, NORTH CAROLINA	SOF OPERATIONS BUILDING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140415BB	141	92793	18,870

(d) Total Design Cost ($000): 2,213
(e) Energy Study and/or Life Cycle Analysis performed: YES
(f) Standard or definitive design used: NO
(3) Construction Data
(a) Contract Award: Jun 23
(b) Construction Start: Sep 23
(c) Construction Complete: Apr 25

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
C4I Equipment	Proc, D-W	2024	1,700
Collateral Equipment	O&M, D-W	2025	1,300
C4I Equipment	O&M, D-W	2025	100

Joint Special Operations Command
Telephone: (910) 243-0550

This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (USSOCOM)		MARCH 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
FORT BRAGG, NORTH CAROLINA	U.S. ARMY SPECIAL OPERATIONS COMMAND	0.93

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 20210930	1820	7792	1354	2304	11832	24	0	0	0	25126
b. END FY27	1819	7796	685	2840	12329	24	0	0	0	25493

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	162,029
b. INVENTORY TOTAL AS OF 20210901	941,974
c. AUTHORIZATION NOT YET IN INVENTORY	285,449
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	15,600
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
f. PLANNED IN NEXT THREE PROGRAM YEARS	176,500
g. REMAINING DEFICIENCY	628,650
h. GRAND TOTAL	2,048,173

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST *($000)*	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
153	SOF SUPPLY SUPPORT ACTIVITY	2,215 SM (23,800 SF)	15,600	03/20	09/22

9. FUTURE PROJECTS

214	SOF TACTICAL EQUIPMENT MAINTENANCE FACILITY	3,345 SM (36,000 SF)	36,000		
140	SOF MACKALL COMPANY OPERATIONS FACILITY	786 SM (8,500 SF)	18,500		
179	SOF FOB FREEDOM UPGRADES	5,271 SM (56,700 SF)	24,000		
140	SOF BATTALION OPERATIONS FACILITY	595 SM (6,400 SF)	41,000		
140	SOF JOINT INTELLIGENCE CENTER	8,483 SM (91,300 SF)	57,000		

10. MISSION OR MAJOR FUNCTIONS

Support and training of 18th Airborne Corps (Airborne), major combat and combat support forces, special operations forces, reserve component training, and other tenant and satellite activities and units. Special Operations Forces: organize, train, equip, and validate readiness of special operations forces for world-wide deployment in support of combatant commanders.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT BRAGG, NORTH CAROLINA	SOF SUPPLY SUPPORT ACTIVITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	153	87447	15,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				**10,543**
GEN. PURPOSE WAREHOUSE, HI-BAY W/ PBO (CC44220) (23,840 SF)	SM	2,166	4351	(9,137)
COVERED BULK STORAGE HARDSTAND (CC14179) (6,308 SF)	SM	586	1,118	(666)
CYBERSECURITY MEASURES	LS	--	--	(250)
SUSTAINABILITY AND ENERGY MEASURES	LS	--	--	(250)
ANTITERRORISM/FORCE PROTECTION	LS	--	--	(250)
SUPPORTING FACILITIES				**3,404**
UTILITIES/COMMISSIONING	LS	--	--	(419)
LOADING/UNLOADING AREA/ORG PARKING	SY	14,572	115	(1,545)
STORM DRAINAGE	LF	1,120	360	(403)
LIFT STATION	LS	--	--	(935)
INFORMATION SYSTEMS/COMMUNICATIONS	LS	--	--	(101)
ESTIMATED CONTRACT COST				13,946
CONTINGENCY (5%)				697

SUBTOTAL				14,759
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				841

TOTAL REQUEST				15,600
TOTAL REQUEST (ROUNDED)				15,600
EQUIPMENT FROM OTHER APPROPRIATIONS				(3,498)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a non-standard design General Purpose Storage Building for use as a Supply Support Activity Warehouse (SSA). Facility includes Property Book Office, covered storage, organizational vehicle parking, building information systems, fire protection and alarm systems, and Energy Monitoring Control Systems connection. Sustainability and energy enhancement measures are included. Supporting facilities include underground utilities (water, sewer, gas), electric service, loading docks, ramps, parking and access roads, paving, sidewalks, curbs and gutters, storm drainage, information systems, landscaping, signage, and site improvements. Heating and air conditioning will be provided by self-contained systems. Demolition of 1,700 SY of parking area is included. Measures in accordance with the Department of Defense (DoD) Minimum Antiterrorism for Buildings standards will be provided. Comprehensive Interior Design and furnishings related design services are required. Accessibility for individuals with disability will be provided. Facilities will be designed to a minimum life of 40 years in accordance with DoD's Unified Facilities Criteria (UFC 1-200-02) including energy efficiencies, building envelope and integrated building systems.

11.Requirement: 59,323 SM (639,000 SF) **Adequate:** 48,167 SM (518,465 SF) **Substandard:** 11,156 SM (120,100 SF)

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT BRAGG, NORTH CAROLINA	SOF SUPPLY SUPPORT ACTIVITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	153	87447	15,600

PROJECT: Construct a non-standard General Purpose Storage Building for use as an SSA warehouse.

REQUIREMENT: The 3rd Special Forces Group (Airborne) (3SFG (A)) conducts unconventional warfare, foreign internal defense, special reconnaissance, direct action, and counter-terrorism missions. This project is required to provide a consolidated SSA in support of the 3SFG (A) to increase mission efficiency and readiness. The logistical operations of 3SFG (A), includes shipping, receiving, equipment issue, and supply storage. Inefficiencies will continue to hamper mission readiness.

CURRENT SITUATION: The 3SFG (A) executes SSA operations from two separate, shared facilities that require up to an hour round-trip drive, round trip, from the unit area in the Yarborough Complex at Fort Bragg. Building E1952, constructed in 1991, supports the Group Issue Point (GIP). The customer service counter for the GIP is located opposite the receiving point, requiring issuing operations to stop, while the customer service counter is moved to receive materials and equipment. The 3SFG (A) SSA warehouse operation is remotely located from the GIP, requiring materials and equipment to be handled multiple times from delivery to its distribution point. Building H5786, is a warehouse constructed in 1999, supports the 3SFG (A) receiving/issue, sensitive items storage, stock control, and warehousing operations. Additionally, the SSA site has limited access for deliveries, as there is no space available for deliveries to be made directly into their section of the warehouse, causing unloading operations to be conducted outside and uncovered from the elements. As a result of the existing facility shortfalls, the unit is hampered to efficiently execute mission operations and support readiness.

IMPACT IF NOT PROVIDED: The logistical operations of 3SFG (A) will continue to experience mission inefficiencies which impact mission readiness. The current SSA operations are located in residual spaces that have undergone varying levels of retrofit in an attempt to accommodate the missions, none of which has been successful for long-term planning. Therefore, current facilities are not configured to meet mission requirements for operations tempo, pre-deployment activities, and safety; and are a 60-minute round trip drive from supported units. Staging and maintenance activities for the 3SFG (A) will continue to operate from a fragmented group of facilities that were not designed to support the existing level of equipment and personnel. Failure to provide functionally adequate and appropriately sized facilities will result in a negative impact for the 3SFG (A) mission operations, support, and readiness.

ADDITIONAL: Alternative methods of meeting this requirement have been explored during project development and this project was determined to be the only feasible option. This project will be designed and constructed in accordance with Unified Facilities Criteria, Installation Architectural Compatibility Plan, other applicable DoD criteria, Army regulations, and applicable US Federal environmental laws and regulations. This project will provide Anti-Terrorism/Force Protection (AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. The project site flood vulnerability determination has been accomplished by the installation and will be part of the project planning process. The project site is not in the 100-year flood plain. Building E1592, and the portion utilized by 3SFG (A) in Building H5786 will be turned over to USASOC.

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. Supplemental Data:

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT BRAGG, NORTH CAROLINA	SOF SUPPLY SUPPORT ACTIVITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	153	87447	15,600

A. Estimated Execution Data

(1) Acquisition Strategy:	Design-Bid-Build
(2) Design Data	
(a) Design or Request for Proposal (RFP) Started:	Mar 20
(b) Percent of Design Completed as of Jan 2022	35%
(c) Design or RFP Complete	Sep 22
(d) Total Design Cost ($000)	1,075
(e) Energy Study and Life Cycle Analysis Performed	No
(f) Basis of design standard or definitive?	No
(3) Construction Data:	
(a) Contract Award:	Apr 23
(b) Construction Start:	Jun 23
(c) Construction Complete:	Jun 25

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Collateral Equipment	O&M, D-W	2026	1,348
Collateral Equipment	PROC, D-W	2026	238
C4I Equipment	O&M, D-W	2026	1,348
C4I Equipment	PROC, D-W	2025	565

US Army Special Operations Command
Telephone: (910) 432-1296
This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (USSOCOM)		MARCH 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
NAVAL AIR STATION, DAM NECK ANNEX, VIRGINIA BEACH, VIRGINIA	JOINT SPECIAL OPERATIONS COMMAND	1.00

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 20210930	171	1197	494	0	0	0	0	0	0	1862
b. END FY27	170	1197	494	0	0	0	0	0	0	1861

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	333
b. INVENTORY TOTAL AS OF 20200901	359,623
c. AUTHORIZATION NOT YET IN INVENTORY	44,890
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	26,600
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
f. PLANNED IN NEXT THREE PROGRAM YEARS	0
g. REMAINING DEFICIENCY	225,400
h. GRAND TOTAL	656,513

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST *($000)*	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
143	SOF OPERATIONS BUILDING ADDITION	3,707 SM (39,900 SF)	26,600	07/2019	06/2022

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

The Naval Special Warfare Development Group (NSWDG) mission is to research, develop, test and evaluate current and emerging technologies applicable to Naval Special Warfare Forces. Also, to develop maritime, ground, and airborne tactics for Naval Special Warfare and possible Department of Defense application.

The mission of Naval Special Warfare Command (NSWC) is to organize, man, train, equip, educate, sustain, maintain combat readiness and deploy Naval Special Warfare forces to accomplish Special Operations Missions.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAS OCEANA, DAM NECK ANNEX VIRGINIA BEACH, VA	SOF OPERATIONS BUILDING ADDITION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000) (TNR9)
1140415BB	143	P-1075	26,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				22,536
OPERATIONS BUILDING CC 14325 (6,260 SF)	SM	582	5,096	(2,966)
OPERATIONS BUILDING CC 14325 (33,600 SF) (RENOVATE)	SM	3,125	2,350	(7,344)
CYBER SECURITY MEASURES	EA	1	276,000	(276)
MODULAR FACILITY (24,200 SF)	SM	2,248	4,015	(9,025)
INFORMATION SYSTEMS	LS	--	--	(85)
ANTI-TERRORISM/FORCE PROTECTION	LS	--	--	(106)
BUILT-IN EQUIPMENT	LS	--	--	(1,222)
SPECIAL COSTS	LS	--	--	(1,074)
OPERATIONS & MAINTENANCE SUPP INFO (OMSI)	LS			(438)
SUPPORTING FACILITIES				1,424
SITE PREPARATION	LS	--	--	(477)
SPECIAL FOUNDATION FEATURES	LS	--	--	(330)
PAVING AND STIE IMPROVEMENTS	LS	--	--	(43)
ELECTRICAL UTILITIES	LS	--	--	(425)
MECHANICAL UTILITIES	LS	--	--	(106)
DEMOLITION (5,058 SF)	LS	--	--	(43)
SUBTOTAL				23,960
CONTINGENCY (5%)				1,198
TOTAL CONTRACT COST				25,158
SIOH (5.7%)				1,434
SUBTOTAL				26,592
TOTAL REQUEST ROUNDED				26,600
TOTAL REQUEST				26,600
EQUIPMENT FROM OTHER APPROPRIATIONS (NON ADD)				(4,718)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: This project constructs a two-story addition and renovates existing Building 368 at Naval Air Station Oceana, Dam Neck Annex. The new footprint to the existing building will expand existing high-bay space and include mezzanine storage. The project also renovates all existing administrative and operational spaces in Building 368. A 24,200 SF Temporary Modular Facility (2-story) will be provided as swing space for the duration of this project. Appropriate cybersecurity measures will be applied to the facility-related control systems in accordance with current Department of Defense (DoD) criteria. Information Systems include telephone, computer network, fiber optic, cable television, security and fire alarm systems and infrastructure. This project will provide Anti-Terrorism/Force Protection (AT/FP) features and comply with AT/FP regulation and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings.
Built-in Equipment includes parking lifts. Special costs include Post Construction Contract Award Services, Sensitive Compartmented Information Facility (SCIF), and Cybersecurity commissioning. Special costs also include monitoring

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAS OCEANA, DAM NECK ANNEX VIRGINIA BEACH, VA	SOF OPERATIONS BUILDING ADDITION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000) (TNR9)
1140415BB	143	P-1075	26,600

during SCIF construction; including surveillance by Construction Security Technicians and Cleared American Guards during secure space finish work in accordance with Intelligence Community guidance. Construction monitoring is required to observe the construction to ensure there are no abnormalities that could affect and compromise the security of the SCIF. The cybersecurity commissioning cost is to cover the contractor's submittals, administrative actions and compliance with the Department of the Navy's (DoN) cybersecurity requirements as well as DoN's in-house costs to review contractor submittals and to implement steps necessary for obtaining Authority to Operate. Operations and Maintenance Support Information (OMSI) is included in the project.

DoD and DoN principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low impact development features will be included in the design and construction of this project as appropriate. Site preparation includes demolition and relocation of existing utilities and paved surfaces and earthwork. Special foundation features include piles and shallow foundations. Paving and site improvements includes paved surfaces and landscaping. Electrical utilities include a new generator, electrical distribution and a pad mounted transformer. Mechanical utilities include water distribution and sanitary sewer system. Demolition includes the removal of existing sprung structure (5,058 SF). Facilities will be designed to meet or exceed the useful life specified in DoD Unified Facility Criteria. Facilities will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency.

11. REQUIREMENT: 5,937 SM (63,900 SF) **ADEQUATE:** 0 **SUBSTANDARD:** 0

PROJECT: This project constructs a two-story building addition and renovates existing Building 368 at Naval Air Station Oceana Dam Neck Annex. This includes approximately 6,260 SF of addition and 33,600 SF of renovation. A 24,200 SF Modular Facility will be provided and used as swing space.

REQUIREMENT: The unit requires adequate operational and storage space to support existing mission requirements.

CURRENT SITUATION: The unit currently has a significant deficit in operational facility space (CCN 14325) per the latest Basic Facilities Requirements report. Many functions are currently being performed out of conditioned ConX boxes that are being used for daily operational needs. Further lack of existing adequate office spaces is creating an adverse impact on development of Tactics, Techniques and Procedures, and other mission-based requirements.

IMPACT IF NOT PROVIDED: Without the proposed renovation and additional space, the unit will be significantly impacted and become unable to continue developing SOF specific and evolving tactics and techniques. Current requirements and the lack of available space have created improper conditions for operational equipment as well as workspaces.

ADDITIONAL: Alternative methods of meeting this requirement have been explored during project development. This project is the only feasible option to satisfy the requirement. This project has been coordinated with the installation physical security plan, and all physical security measures are included.

Storm water management Low Impact Development will be included in the project as appropriate. This project will provide AT/FP features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Project site is located above the 100-year flood plain; flood mitigation measures will be applied as necessary.

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. SUPPLEMENTAL DATA:

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAS OCEANA, DAM NECK ANNEX VIRGINIA BEACH, VA	SOF OPERATIONS BUILDING ADDITION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000) (TNR9)
1140415BB	143	P-1075	26,600

A. Estimated Execution Data

(3) Acquisition Strategy	Design Bid Build
(4) Design Data	
(d) Design or Request for Proposal (RFP) Started:	Jul 19
(e) Percent of Design Completed as of Jan 2022:	65%
(f) Design or RFP Complete:	Jun 22
(d) Total Design Cost ($000):	2,124
(e) Energy Study and/or Life Cycle Analysis performed:	No
(f) Standard or definitive design used:	No
(3) Construction Data	
(a) Contract Award:	Apr 23
(b) Construction Start:	Jun 23
(c) Construction Complete:	Jun 25

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
C4I Equipment	O&M, D-W	2025	553
C4I Equipment	PROC, D-W	2024	820
Collateral Equipment	PROC, D-W	2024	365
Collateral Equipment	O&M, D-W	2025	2,980

JSOC
Telephone: (910) 243-0550

This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (USSOCOM)		MARCH 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
BAUMHOLDER, GERMANY	US ARMY SPECIAL OPERATIONS COMMAND	0.99

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 20210930	0	0	0							0
b. END FY27	70	1016	4							1090

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	
b. INVENTORY TOTAL AS OF 20220901	0
c. AUTHORIZATION NOT YET IN INVENTORY	0
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	78,023
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
f. PLANNED IN NEXT THREE PROGRAM YEARS	56,800
g. REMAINING DEFICIENCY	0
h. GRAND TOTAL	134,075

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST *($000)*	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
140	SOF SUPPORT ANNEX	785 SM (8,450 SF)	21,902	07/2020	03/2022
140	SOF OPERATIONS ANNEX	810 SM (8,719 SF)	23,768	07/2020	03/2022
131	SOF COMMUNICATIONS ANNEX	141 SM (1,518 SF)	9,885	07/2020	03/2022
140	SOF BATTALION ANNEX	800 SM (8,611 SF)	22,468	07/2020	03/2022

9. FUTURE PROJECTS

140	SOF OPERATIONAL READINESS ANNEXES	3,670 SM (39,500 SF)	31,000		
218	SOF JOINT PARACHUTE RIGGING FACILITY	2,376 SM (25,600 SF)	13,400		
171	SOF HUMAN PERFORMANCE TRAINING CENTER	2,107 SM (22,700 SF)	12,400		

10. MISSION OR MAJOR FUNCTIONS

U.S. Army Garrison Rheinland-Pfalz is the Army's premier Strategic Readiness Platform overseas in delivering unmatched mobilization and installation support services to enable readiness for a globally responsive Army and providing a safe home for our Total Force community and families.

Special Operations Forces: organize, train, equip, and validate readiness of special operations forces for world-wide deployment in support of combatant commanders.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
D. Air Pollution	0
E. Water Pollution	0
F. Occupational Safety and Health	0

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MARCH 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
BAUMHOLDER GERMANY	SOF SUPPORT ANNEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	92352	21,902

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				17,619
OPERATIONS SUPPORT FACILITY (CC 14162) (8,450 SF)	SM	785	18,469	(14,498)
ANTI-TERRORISM/FORCE PROTECTION	LS	--	--	(351)
BUILT-IN EQUIPMENT	LS	--	--	(187)
SPECIAL CONSTRUCTION FEATURES	LS	--	--	(1,749)
OPERATION AND MAINTENANCE SUPPORT INFO (OMSI)	LS	--	--	(134)
SUSTAINABILITY AND ENERGY FEATURES	LS	--	--	(327)
CYBERSECURITY MEASURES	LS	--	--	(374)
SUPPORTING FACILITIES				1,967
UTILITIES	LS	--	--	(561)
SITE PREPARATION	LS	--	--	(327)
ROADS, SIDEWALKS AND PARKING	LS	--	--	(253)
SITE IMPROVEMENTS	LS	--	--	(468)
SPECIAL FOUNDATION FEATURES	LS	--	--	(359)
ESTIMATED CONTRACT COST				19,586
CONTINGENCY (5%)				979

SUBTOTAL				20,556
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				1,337

TOTAL REQUEST				21,902
TOTAL REQUEST (ROUNDED)				21,900
EQUIPMENT FROM OTHER APPROPRIATIONS				(18,861)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Constructs a Support Annex for Naval Special Warfare Group TWO (NSWG2) Detachment Germany, assisting in planning and execution of special operations in the U.S. Europe Command (USEUCOM) and U.S. Africa Command (USAFRICOM) Area of Responsibility (AOR). Construction will consist of tilt up concrete walls, reinforced concrete slab-on-grade with reinforced perimeter footing and spread beam foundation. Special Construction Features include construction of the Secure Storage Laydown Area, Construction Surveillance Technicians, and Cleared American Guards. Supporting facilities include all related site-work and utilities (electrical, water, gas, sanitary sewer, and information systems distribution), lighting, emergency generator parking, access drives, roads, curb and gutter, sidewalks, storm drainage, landscaping, special foundations, passive force protection measures, construction security surveillance, and other site improvements. Department of Defense (DoD) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development features will be

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MARCH 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
BAUMHOLDER GERMANY	SOF SUPPORT ANNEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	92352	21,902

included in the design and construction of this project as appropriate. This project will provide Anti-Terrorism/Force Protection (AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Appropriate cybersecurity measures will be applied to the facility-related control systems in accordance with current DoD criteria.

11. Requirement: 785 SM (8,450 SF) **Adequate:** 0 SM **Substandard:** 0 SM

PROJECT: Constructs a Support Annex for NSWG2 Detachment Germany, assisting in planning and execution of special operations in the USEUCOM and USAFRICOM AOR.

REQUIREMENT: Provides a secure operational facility that supports secure communication, Command & Control (C2) and mission planning for National/Theatre engagements in support of Geographic Combatant Commands (GCC) and Theatre Special Operations Commands (TSOC).

CURRENT SITUATION: Existing facilities at Baumholder are unable to accommodate unique requirements of a Support Annex and NSWG2 Detachment Germany requires this facility for secure communication, C2 and mission planning for National/Theatre engagements in support of GCC and TSOC.

IMPACT IF NOT PROVIDED: Without a new Support Annex at Baumholder, NSWG2 Detachment Germany will be unable to communicate securely and plan special operations missions. USSOCOM and IMCOM Europe will be unable to implement the SOF to Baumholder initiative. This capital improvements plan corrects the overcrowding at USAG Stuttgart.

ADDITIONAL: No life cycle costs have been calculated at this time. This project is in compliance with current seismic requirements.

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design Bid Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	Jul 20
(b) Percent of Design Completed as of Jan 2022:	65%
(c) Design or RFP Complete:	Mar 22
(d) Total Design Cost ($000):	1,729
(e) Energy Study and/or Life Cycle Analysis Performed:	No
(f) Standard or Definitive Design Used:	No
(3) Construction Data:	
(a) Contract Award:	Mar 23
(b) Construction Start:	Jun 23
(c) Construction Complete:	Nov 24

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Collateral Equipment	O&M, D-W	2025	4,674
C4I Equipment	O&M, D-W	2025	2,582
Collateral Equipment	PROC, D-W	2024	5,880
C4I Equipment	PROC, D-W	2024	5,725

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MARCH 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
BAUMHOLDER GERMANY	SOF SUPPORT ANNEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	92352	21,902

Naval Special Warfare Command
Telephone: (619) 537-1050

This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
BAUMHOLDER, GERMANY	SOF OPERATIONS ANNEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	92243	23,768

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				19,374
SOF OPERATIONS ANNEX (CC14162) (8,719 SF)	SM	810	19,829	(16,062)
CYBERSECURITY MEASURES	LS			(763)
ANTI-TERRORISM/FORCE PROTECTION	LS			(265)
SUSTAINABILITY AND ENERGY FEATURES	LS			(265)
OPERATION AND MAINTENANCE SUPPORT INFO (OMSI)	LS			(275)
SPECIAL CONSTRUCTION FEATURES	LS			(1,745)
SUPPORTING FACILITIES				1,880
UTILITIES	LS	--	--	(1,296)
SITE IMPROVEMENTS	LS	--	--	(467)
STORM DRAINAGE	LS	--	--	(86)
DEMOLITION	LS	--	--	(6)
INFORMATION SYSTEMS	LS	--	--	(24)
ESTIMATED CONTRACT COST				21,555
CONTINGENCY (5%)				1,065
SUBTOTAL				22,317
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				1,451
TOTAL REQUEST				23,768
TOTAL REQUEST (ROUNDED)				23,800
EQUIPMENT FROM OTHER APPROPRIATIONS				(48,358)

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Constructs a SOF Operations Annex. Primary facility includes all pertinent site preparations and site improvements, mechanical and electrical utilities, telecommunications, drainage, exterior lighting, and construction security surveillance. Special Construction Features include construction of the Secure Storage Laydown Area, Construction Surveillance Technicians, and Cleared American Guards. Supporting facilities include all related site-work and utilities (electrical, water, gas, sanitary sewer, and information systems distribution), lighting, emergency generator parking, access drives, roads, curb and gutter, sidewalks, storm drainage, landscaping, special foundations, passive force protection measures, and other site improvements. Department of Defense (DoD) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development features will be included in the design and construction of this project as

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
BAUMHOLDER, GERMANY	SOF OPERATIONS ANNEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	92243	23,768

appropriate. This project will provide Sustainability and Energy Features, Anti-Terrorism/Force Protection (AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Facilities will be designed to a minimum life of 40 years in accordance with DoD's Unified Facilities Criteria (UFC 1-200-02) including energy efficiencies, building envelope and integrated building systems performance.

11. Requirement: 810 SM (8,719 SF) **Adequate:** 0 SM **Substandard:** 0 SM

PROJECT: Construct a SOF Operations Annex for the United States Special Operations Command (USSOCOM).

REQUIREMENT: Provides adequate operational facilities for the re-location and consolidation of USSOCOM units to Smith Barracks, Baumholder, Germany. These operational missions provide current and real time special operations, steady state, and command and control operations to pursue U.S. strategic goals. These facilities support the continual operations, training and deployment of forces into real world exercises and conventional and unconventional, special and irregular war scenarios.

CURRENT SITUATION: There is no adequate space for secure operations identified in the SOF area at Baumholder. The affected units are operating at multiple installations. The current facilities are undersized and poorly configured for operational mission support. Operational areas are severely inadequate accommodating less than authorized space. Community support services at Stuttgart such as family housing, CDC, schools, and utility infrastructure have exceeded capacity. Since Baumholder has a surplus capacity, land and maritime SOF will re-posture from Stuttgart to Baumholder. However, the requisite vertical and horizontal infrastructure at Baumholder is inadequate and failing with limited power support. The communications infrastructure does not support modern data and information systems. Security and AT/FP requirements cannot be met in the current facilities.

IMPACT IF NOT PROVIDED: Without a new SOF Operations Annex facility at Baumholder, the Joint Special Operations Command will not have the required secure operations capability at Baumholder. If not provided, the units will remain severely hindered in conducting planning, operations, and training needed to optimize the unit's capability to meet urgent national security missions. Organizational effectiveness, operational efficiency, and unit morale will risk degradation by continued use of substandard, severely undersized and poorly configured buildings.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and all physical security measures are included. All required antiterrorism protection measures are included. Alternative methods of meeting this requirement have been explored during project development. This project is the only feasible option to meet the requirement.
Required assessments have been made for supporting facilities and the project is not in a 100-year floodplain.

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
BAUMHOLDER, GERMANY	SOF OPERATIONS ANNEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	92243	23,768

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design Bid Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	Jul 20
(b) Percent of Design Completed as of Jan 2022:	65%
(c) Design or RFP Complete:	Mar 22
(d) Total Design Cost ($000):	3,050
(e) Energy Study and/or Life Cycle Analysis Performed:	Yes
(f) Standard or Definitive Design Used:	No
(3) Construction Data:	
(a) Contract Award:	Mar 23
(b) Construction Start:	Jun 23
(c) Construction Complete:	May 25

B. Equipment Associated With This Project That Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Collateral Equipment	O&M, D-W	2025	18,962
C4I Equipment	O&M, D-W	2025	5,814
Collateral Equipment	PROC, D-W	2024	5,100
C4I Equipment	PROC, D-W	2024	5,100

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
BAUMHOLDER, GERMANY	SOF OPERATIONS ANNEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	92243	23,768

Headquarters USSOCOM
Telephone: (813) 826-6644

This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
BAUMHOLDER, GERMANY	SOF COMMUNICATIONS ANNEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	131	92351	9,885

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				7,306
COMMUNICATIONS ANNEX (CC14162) (1,518 SF)	SM	141	42,533	(5,997)
ANTI-TERRORISM/FORCE PROTECTION	LS			(100)
SUSTAINABILITY AND ENERGY FEATURES	LS			(100)
OPERATION AND MAINTENANCE SUPPORT INFO (OMSI)	LS			(127)
CYBERSECURITY MEASURES	LS			(377)
SPECIAL CONSTRUCTION FEATURES	LS			(605)
SUPPORTING FACILITIES				1,534
UTILITIES	LS	--	--	(858)
STORM DRAINAGE	LS	--	--	(94)
SITE IMPROVEMENTS	LS	--	--	(559)
INFORMATION SYSTEMS	LS	--	--	(23)
ESTIMATED CONTRACT COST				8,840
CONTINGENCY (5%)				442
SUBTOTAL				9,282
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				603
SUBTOTAL				9,885
TOTAL REQUEST				9,885
TOTAL REQUEST (ROUNDED)				9,890
EQUIPMENT FROM OTHER APPROPRIATIONS				(3,031)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a SOF Communications Annex. Primary facility includes all pertinent site preparations and site improvements, mechanical, and electrical utilities, telecommunications, landscaping, drainage, parking, exterior lighting, and construction security surveillance. Special Construction Features include construction of the Secure Storage Laydown Area, Construction Surveillance Technicians, and Cleared American Guards. Supporting facilities include all related site-work and utilities (electrical, water, gas, sanitary sewer, and information systems distribution), lighting, emergency generator parking, access drives, roads, curb and gutter, sidewalks, storm drainage, landscaping, special foundations, passive force protection measures, and other site improvements. Department of Defense (DoD) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development features will be included in the design and construction of this project as appropriate. This project will provide Sustainability and Energy Features, Anti-Terrorism/Force Protection

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
BAUMHOLDER, GERMANY	SOF COMMUNICATIONS ANNEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	131	92351	9,885

(AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Facilities will be designed to a minimum life of 40 years in accordance with DoD's Unified Facilities Criteria including energy efficiencies, building envelope and integrated building systems performance. Secure Storage Annex and personnel required to support construction and administration. Appropriate cybersecurity measures will be applied to the facility-related control systems in accordance with current DoD criteria.

11. Requirement: 141 SM (1,518 SF) **Adequate:** 0 SM **Substandard:** 0 SM

PROJECT: Construct a SOF Communications Annex for the United States Special Operations Command (USSOCOM).

REQUIREMENT: Provides adequate operational facilities for the re-location and consolidation of USSOCOM units to Smith Barracks, Baumholder, Germany. These operational missions provide current and real time special operations, steady state, and command and control operations to pursue U.S. strategic goals. These facilities support the continual operations, training and deployment of forces into real world exercises and conventional and unconventional, special and irregular war scenarios.

CURRENT SITUATION: There is no adequate space for secure operations identified in the SOF area at Baumholder. The affected units are operating at multiple installations. The current facilities are undersized and poorly configured for operational mission support. Operational areas are severely inadequate accommodating less than authorized space. Community support services at Stuttgart such as family housing, child development center, schools, and utility infrastructure have exceeded capacity. Since Baumholder has a surplus capacity, land and maritime SOF will re-posture from Stuttgart to Baumholder. However, the requisite vertical and horizontal infrastructure at Baumholder is inadequate and failing with limited power support. The communications infrastructure does not support modern data and information systems. Security and AT/FP requirements cannot be met in the current facilities.

IMPACT IF NOT PROVIDED: Without a new SOF Communications Annex facility at Baumholder, the Joint Special Operations Command will not have the required secure operations capability at Baumholder. If not provided, the units will remain severely hindered in conducting planning, operations, and training needed to optimize the unit's capability to meet urgent national security missions. Organizational effectiveness, operational efficiency, and unit morale will risk degradation by continued use of substandard, severely under-sized and poorly configured buildings.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and all physical security measures are included. All required antiterrorism protection measures are included. Alternative methods of meeting this requirement have been explored during project development. This project is the only feasible option to meet the requirement. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development and construction of the project and will

follow the guidance detailed in the Army Sustainable Design and Development Policy- complying with applicable laws and executive orders. Required assessments have been made for supporting facilities and the project is not in a 100-year floodplain.

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design Bid Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	Jul 20
(b) Percent of Design Completed as of Jan 2022:	65%
(c) Design or RFP Complete:	Mar 22
(d) Total Design Cost ($000):	900
(e) Energy Study and/or Life Cycle Analysis Performed:	No
(f) Standard or Definitive Design Used:	No
(3) Construction Data:	
(a) Contract Award:	Mar 23
(b) Construction Start:	Jun 23
(c) Construction Complete:	Aug 25

B. Equipment Associated With This Project That Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Collateral Equipment	O&M, D-W	2025	1,166
C4I Equipment	O&M, D-W	2025	385
Collateral Equipment	PROC, D-W	2024	1,244
C4I Equipment	PROC, D-W	2024	1,244

Headquarters USSOCOM
Telephone: (813) 826-6644

This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
BAUMHOLDER, GERMANY	SOF BATTALION ANNEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	92242	22,468

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				**17,379**
SOF BATTALION ANNEX (CC 14162) (8,611 SF)	SM	800	16,204	(12,963)
SUSTAINABILITY AND ENERGY FEATURES	LS	--	--	(1,037)
CYBERSECURITY MEASURES	LS	--	--	(1,037)
OPERATION AND MAINTENANCE SUPPORT INFO (OMSI)	LS	--	--	(280)
ANTI-TERRORISM/FORCE PROTECTION	LS	--	--	(270)
SPECIAL CONSTRUCTION FEATURES	LS	--	--	(1,763)
SUPPORTING FACILITIES				**2,743**
UTILITIES	LS	--	--	(1,244)
STORM DRAINAGE	LS	--	--	(88)
SITE IMPROVEMENTS	LS	--	--	(1,006)
INFORMATION SYSTEMS	LS	--	--	(404)
ESTIMATED CONTRACT COST (ROUNDED)				20,092
CONTINGENCY (5% - OCONUS)				1,005

SUBTOTAL				21,097
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				1,371
TOTAL REQUEST				22,468
TOTAL REQUEST (ROUNDED)				22,500
EQUIPMENT FROM OTHER APPROPRIATIONS				(6,899)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a SOF Battalion Annex which include administrative, Sensitive Compartmented Information Facility, classrooms, readiness areas, arms room vault, secure storage, unit storage, lockers, generator with uninterrupted power supply, and parking areas. Primary facility includes all pertinent site preparations and site improvements, mechanical, and electrical utilities, telecommunications, landscaping, drainage, parking, exterior lighting, and construction security surveillance. Construction consists of concrete foundation and floor slab with metal frame structure. Built-in building systems will include fire alarm/mass notification, fire suppression, energy management control, telephone and advanced unclassified and classified communications networks, cable TV, intrusion detection, closed circuit surveillance, and electronic access control systems and a hardened protected distribution system. Special Construction Features include construction of the Secure Storage Laydown Area, Construction Surveillance Technicians, and Cleared American Guards. Supporting facilities include all related site-work, construction security surveillance and utilities (electrical, water, gas, sanitary sewer, chilled water and information systems distribution), lighting, vehicle parking, emergency generator parking, access drives, roads, curb and gutter, sidewalks, storm drainage, landscaping, special foundations, passive force protection

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
BAUMHOLDER, GERMANY	SOF BATTALION ANNEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	92242	22,468

measures, and other site improvements. Access for persons with disabilities will be provided. Comprehensive interior design and audio-visual services are included. Facilities will be designed to a minimum life of 40 years in accordance with Department of Defense (DoD) Unified Facilities Criteria including energy efficiencies, building envelope and integrated building systems performance. DoD principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development features will be included in the design and construction of this project as appropriate.

11.Requirement: 800 SM (8,611 SF) **Adequate:** 0 SM (0 SF) **Substandard:** 0 SM (0 SF)

PROJECT: Construct a SOF Battalion Annex for the United States Special Operations Command (USSOCOM).
REQUIREMENT: Provide adequate operational facilities for the re-location and consolidation of USSOCOM units to Smith Barracks, Baumholder, Germany. These operational missions provide current and real time special operations, steady state, and command and control operations to pursue U.S. strategic goals. These facilities support the continual operations, training and deployment of forces into real world exercises and conventional and unconventional, special and irregular war scenarios.
CURRENT SITUATION: The affected units are operating at four different installations in Germany and CONUS. The current facilities are undersized and poorly configured for operational mission support. Operational areas are severely accommodating 30% of authorized space. Community support services at Stuttgart such as family housing, child development center, schools, and utility infrastructure have exceeded capacity. Since Baumholder has a surplus capacity, land and maritime SOF will re-posture from Stuttgart to Baumholder. The requisite vertical and horizontal infrastucture at Baumholder is inadequate and failing, with limited power support. The communications infrastructure does not support modern data and information systems. Security and AT/FP requirements cannot be met in the current facilities.
IMPACT IF NOT PROVIDED: The units will remain severely hindered in conducting planning, operations, and training needed to optimize the capability to meet urgent national security missions. Organizational effectiveness, operational efficiency, and unit morale will risk degradation by continued use of substandard, severely undersized, and poorly configured facilities.
ADDITIONAL: Alternative methods of meeting this requirement have been explored during project development and this project is the only feasible option. This project will provide AT/FP features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. The project site flood vulnerability determination has been accomplished by the installation and will be part of the project planning process. The project site is located above the 100-year flood plain. Required assessments have been made for supporting facilities and the project is not in a 100-year floodplain.
JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. Supplemental Data:

A. Estimated Execution Data	
(1) Acquisition Strategy:	Design-Bid-Build
(2) Design Data	
(a) Design or Request for Proposal (RFP) Started:	Jul 20
(b) Percent of Design Completed as of Jan 2022	65%
(c) Design or RFP Complete	Mar 22
(d) Total Design Cost ($000)	1,124

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
BAUMHOLDER, GERMANY	SOF BATTALION ANNEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	92242	22,468

(e) Energy Study and Life Cycle Analysis Performed — No
(f) Basis of design standard or definitive? — No
(3) Construction Data:
(a) Contract Award: — Mar 23
(b) Construction Start: — Jun 23
(c) Construction Complete: — Nov 24

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Collateral Equipment	O&M, D-W	2025	1,923
Collateral Equipment	PROC, D-W	2024	1,111
C4I Equipment	O&M, D-W	2025	336
C4I Equipment	PROC, D-W	2024	1,527

C. Building Condition Index (BCI):

Building Number	BCI
New Facility	N/A

This Headquarters has reviewed and validated the accuracy of the project justification.
US Army Special Operations Command
Telephone: (910) 432-1296

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (USSOCOM)		MARCH 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
YOKOTA AIR BASE, JAPAN	AIR FORCE SPECIAL OPERATIONS COMMAND	2.18

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 20210930	26	245	3	0	0	0	0	0	0	274
b. END FY27	25	248	3	0	0	0	0	0	0	276

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	1,750
b. INVENTORY TOTAL AS OF 20210930	85,938
c. AUTHORIZATION NOT YET IN INVENTORY	185,253
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	72,154
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
f. PLANNED IN NEXT THREE PROGRAM YEARS	0
g. REMAINING DEFICIENCY	0
h. GRAND TOTAL	343,345

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST *($000)*	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
442	PDI: OPERATIONS AND WAREHOUSE FACILITIES	5,621 SM (60,500 SF)	72,154	04/15	08/22

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

The 353d Special Operations Group is the focal point for special operations aviation activities throughout the Pacific. Under operational control of the commander, Special Operations Command Pacific, the 353 SOG plans and executes general war and contingency operations using advanced aircraft, tactics and techniques to infiltrate, exfiltrate, resupply and support special operations forces. The 353d SOG's 21st Special Operations Squadron and 753rd Special Operations Aircraft Maintenance Squadron operate and maintain CV-22 Ospreys, AFSOC's primary long-range mobility platform.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

DD FORM 1390, JUL 1999

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
YOKOTA AIR BASE, JAPAN	PDI: OPERATIONS AND WAREHOUSE FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	442	AFSOC103008	72,154

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				**58,677**
SQUADRON OPERATIONS (CC14175) (20,500 SF)	SM	1,905	13,465	(25,651)
HEADQUARTERS GROUP OPS (CC61034) (7,200 SF)	SM	669	15,926	(10,654)
WAREHOUSE (CC44275) (32,800 SF)	SM	3,047	6,632	(20,208)
CYBERSECURITY MEASURES	LS	--	--	(1,082)
SUSTAINABILITY AND ENERGY FEATURES	LS	--	--	(1,082)
SUPPORTING FACILITIES				**5,847**
UTILITIES	LS	--	--	(1,097)
SITE IMPROVEMENTS	LS	--	--	(738)
PAVEMENTS	LS	--	--	(2,129)
COMMUNICATION	LS	--	--	(135)
MITIGATION	LS	--	--	(272)
CONSTRUCTION SECURITY SURVEILLANCE	LS	--	--	(1,304)
AT/FP/PHYSICAL SECURITY MEASURES				(172)

ESTIMATED CONTRACT COST				64,524
CONTINGENCY (5%)				3,226

SUBTOTAL				67,750
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				4,404

TOTAL REQUEST				72,154
TOTAL REQUEST (ROUNDED)				72,154
EQUIPMENT FROM OTHER APPROPRIATIONS				(4,100)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct group and squadron operations facilities with concrete foundation and floor slab, steel frame, masonry walls and sloped metal roof. Functional areas include areas such as staff and administration, planning and briefing areas, secure open storage and planning vault, mobility storage, life support/aircrew flight equipment storage and maintenance. Construct aircraft parts and Mobility Readiness Spare Packages (MRSP) warehouse with associated external covered and uncovered storage elements. Concrete foundation and floor slab, steel frame, masonry and/or steel walls, sloped metal roof, structured for material handling equipment and racking systems and associated uncovered storage. All facilities include utilities, pavements, campus parking, site improvements, construction security surveillance, communications and all other necessary support. Project AFSOC103022 Airfield Apron provides all primary and secondary roadways, utilities, site improvements, communications, and mitigation for possible dud munitions for site preparation. All work carried out is to comply with current base, Air Force, and Host Nation standards. Department of Defense (DoD) principles for high performance and sustainable building

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
YOKOTA AIR BASE, JAPAN	PDI: OPERATIONS AND WAREHOUSE FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	442	AFSOC103008	72,154

requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development features will be included in the design and construction of this project as appropriate. This project will provide Anti-Terrorism/Force Protection (AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum AT/FP features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Appropriate cybersecurity measures will be applied to the facility-related control systems in accordance with current DoD criteria.

11. Requirement: 5,621 SM (60,500 SF) **Adequate:** 0 SM (0 SF) **Substandard:** 1,755 SM (18,900 SF)

PROJECT: Construct headquarters group and squadron operations and warehouse facilities.
REQUIREMENT: Group Headquarters to provide space for Group Commander, command section and group staff. Squadron operations to provide an adequate facility for Squadron Commander, command section, secure flight planning, briefing, and critique of aircrews and to direct flight operations of aircraft. Activities support the bed-down of a special operations forces (SOF) CV-22 aircraft squadron. Properly configured facilities are essential to exercise secure command and control, operations, training and mission briefings. Space is also required to maintain, store and issue life support, aircrew flight equipment and clothing. Adequate storage facility properly sized and configured, for MRSP and aircraft parts to support bed down of SOF aircraft unit. Development of the special operations mobility capacity supports primary mission of insertion, extraction, and re-supply of unconventional warfare forces and equipment into hostile or enemy-controlled territory using airland or airdrop procedures.
CURRENT SITUATION: The installation lacks facilities to support this function. As an interim solution, a temporary facility will be used for operations. The installation also cannot support MRSP and Peacetime Operating Stock warehousing requirements. A non-warehouse facility in poor condition that is scheduled for demolition has been identified as a partial interim workaround. A small exterior covered storage facility will be repurposed for another storage shortfall by the host installation once this MILCON is complete. Even with the use of both facilities, one third of the storage requirement will remain outside exposed to the elements and pilfering, decreasing their life expectancy and increasing the cost to the government.
IMPACT IF NOT PROVIDED: This MILCON supports replacement of the interim facilities in a timely manner and supports the ability to plan and execute mission requirements with purpose-built operations facilities required for productive sorties resulting in an overall positive impact to operations in support of USSOCOM missions. This MILCON also resolves inadequate secure storage for high value deployment spares and aircraft parts. Day-to-day operations will be inefficient with aircraft parts and MRSP kits spread out. One interim facility has limited long term availability due to host unit need to demolish it for host unit construction requirements. Lack of adequate aircraft parts and kits supply activities will also impact the ability to improve efficiency related to all special operations aircraft movement and maintenance resulting in an overall negative impact to USSOCOM missions.
ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. Alternative methods of meeting this requirement have been explored during project development and this project is the most feasible option. Project is not sited in a 100-year floodplain.

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:		
YOKOTA AIR BASE, JAPAN	PDI: OPERATIONS AND WAREHOUSE FACILITIES		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	442	AFSOC103008	72,154

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12.SUPPLEMENTAL DATA:

A. Estimated Execution Data

(1) Acquisition Strategy	Design-Bid-Build
(2) Design Data	
(a) Design or Request for Proposal (RFP) Started	Apr 15
(b) Percent Complete as of Jan 2022	95%
(c) Design or RFP Complete:	Aug 22
(d) Total Design Cost ($000)	7,215
(e) Energy Study and Life Cycle Analysis Performed	No
(f) Standard or definitive design used?	No
(3) Construction Data	
(a) Contract Award	Mar 23
(b) Construction Start	May 23
(c) Construction Complete	Jul 25

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Collateral Equipment	O&M, D-W	2025	3,000
C4IEquipment	O&M, D-W	2025	1,100

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		MAR 2022	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:		
YOKOTA AIR BASE, JAPAN	PDI: OPERATIONS AND WAREHOUSE FACILITIES		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	442	AFSOC103008	72,154

Air Force Special Operations Command
Telephone: (850) 884-2371
This Headquarters has reviewed and validated the accuracy of the project justification.

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Washington Headquarters Services
FY 2023 Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Virginia				
Pentagon				
Commercial Vehicle Inspection Facility	18,000	18,000	C	107
Total	**18,000**	**18,000**		

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROGRAM	2. DATE
Washington Headquarters Services		March 2022

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
Pentagon, Arlington, VA	OSD/DA&M/WHS	1.08

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 30 Sep 2020										27,488
b. END FY 2022										27,488

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	0.00
b. INVENTORY TOTAL AS OF YYYMMDD	0.00
c. AUTHORIZATION NOT YET IN INVENTORY	0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	18,000.00
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	18,000.00

8. PROJECTS REQUESTED IN THIS PROGRAM

a. CATEGORY			b. COST ($000)	c. DESIGN STATUS	
(1) CODE	(2) PROJECT TITLE	(3) SCOPE		(1) START	(2) COMPLETE
14113	Commercial Vehicle Inspection Facility	7,992 SF	18,000	FEB 2020	NOV 2021

9. FUTURE PROJECTS*

61050	Security and Pedestrian Access Facility (RRMC)	23,076 SF	$28,000	NOV 2021	MAY 2023
14113	Metro Entrance Pedestrian Access Control Point	10,400 SF	$33,800	OCT 2022	MAY 2024

*Only the first increment is shown for incrementally funded projects. Cost indicates the future authorization request.

10. MISSION OR MAJOR FUNCTIONS

Commercial Vehicle Inspection Facility provides efficient, effective, and secure screening of vehicles, which increases deterrence and the protection of Pentagon tenants and police officers from threats.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

DD FORM 1390, JUL 1999

1. COMPONENT WHS	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**	2. Date March 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Pentagon Reservation, Arlington, Virginia	Commercial Vehicle Inspection Facility

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0901584D8W	14113	97665	18,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				**8,137**
COMMERCIAL VEHICLE INSPECTION FACILITY (CC 14113)	SF	2,500	1706.15	(4,265)
INSPECTION CANOPY (CC 14179)	SF	4,700	418.30	(1,966)
MEMORIAL RESTROOM BUILDING (CC 73075)	SF	792	1767.04	(1,399)
BUILDING INFORMATION SYSTEMS	LS			(507)
SUPPORTING FACILITIES				**7,287**
SITE PREPARATION	LS			(588)
ELECTRIC SERVICES	LS			(987)
WATER & SEWER SERVICES	LS			(237)
COMMUNICATIONS SERVICES	LS			(332)
SITE IMPROVEMENTS	LS			(4,173)
STORMWATER MANAGEMENT	LS			(697)
POST-CONSTRUCTION CONTRACT AWARD SERVICES	LS			(273)
SUBTOTAL				**15,424**
CONTINGENCY (5%)				771
TOTAL CONTRACT COST				**16,195**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH) (5.7%)				923
DESIGN/BUILD- DESIGN COST (4%)				648
TOTAL REQUEST				**17,766**
TOTAL REQUEST (ROUNDED)				**18,000**
EQUIPMENT FROM OTHER APPROPRIATIONS				700

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct a ballistic resistant commercial vehicle inspection facility with control room where personnel will be screened and vehicles inspected by security personnel prior to accessing the Pentagon Remote Delivery Facility. Included are kennels, fire protection, intrusion detection, and other anti-terrorism and force protection measures.

Construct an inspection canopy structure to include an under vehicle inspection system that is adjacent to the commercial vehicle inspection facility.

Construct a Memorial restroom building to replace the existing temporary trailer restroom.

Building information systems include energy monitoring control systems, cyber security systems, and related systems.

Site preparation includes site clearing, utility removal, and grading.

1. COMPONENT WHS	**FY 2023 MILITARY CONSTRUCTION PROJECT DATA**		2. Date March 2022
3. INSTALLATION AND LOCATION Pentagon Reservation, Arlington, Virginia		4. PROJECT TITLE: Commercial Vehicle Inspection Facility	
5. PROGRAM ELEMENT 0901584D8W	6. CATEGORY CODE 14113	7. PROJECT NUMBER 97665	8. PROJECT COST ($000) 18,000

Electrical services include primary and secondary service connections, adjacent standby generator, transformer, automatic switchgear, site lighting, security equipment, conduits to serve active vehicle barriers, and emergency power connections.

Water and sewer services include potable water main connections, lines for use with distribution and fire suppression, and sanitary sewer services.

Communications include cabling connections to existing sources, manhole and underground system, and distribution to surveillance and life safety equipment.

Site improvements include roadways, sidewalks, parking lots, inspection canopy signals, built-in active vehicle barriers with signals, under vehicle inspection system, fencing and gates, concrete equipment pads, landscaping and signage.

Storm water management includes retention structures, drain boxes, piping, drainage basins, and outfalls. Low Impact Development features will be included utilizing best management practices.

Facilities will be designed to meet or exceed the useful service life specified in DoD Unified Facility Criteria.

Facilities will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency.

11. REQUIREMENT: 7,992 SF **ADQT:** 0 SF **SUBSTD:** 0 SF

PROJECT: Construct a commercial vehicle inspection facility, inspection canopy, and Memorial restroom.

REQUIREMENT: Provide permanent structures to increase vehicle and personnel screening capabilities for vehicles requiring access to the Pentagon Remote Delivery Facility.

The Pentagon Reservation is required to conduct commercial vehicle screening while providing a safe working environment for security personnel and K-9s. The project will construct the necessary inspection area and operational space for personnel to complete their daily functions. Additionally, this project follows guidance for constructing permanent buildings in lieu of temporary facilities.

The Memorial restroom will provide a permanent replacement for the temporary restroom facility.

CURRENT SITUATION: Following the Pentagon terrorist attack on September 11, 2001, the Pentagon constructed a new secure access lane with temporary facilities to search/inspect all construction and delivery vehicles. This initial access lane was emergency construction and since its inception, the existing screening facility and control booth structures were constructed with materials and in methods typical of short-term temporary use which resulted in significant degradation over the past 20 years.

1. COMPONENT WHS	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. Date March 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Pentagon Reservation, Arlington, Virginia	Commercial Vehicle Inspection Facility

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0901584D8W	14113	97665	18,000

Immediately to the east of the current temporary vehicle inspection facility is the 9/11 Memorial Site, which is open to the public, and receives thousands of visitors each year. The 9/11 Memorial restroom consists of a temporary trailer that serves visitors to the Memorial site without having to enter the Pentagon Building.

This facility is not located in a 100-year flood plain.

IMPACT IF NOT PROVIDED: In its current state, the temporary inspection facility does not meet all operational and safety needs. Security fleet vehicles share the same entrance as the vehicles being screened, presenting risks during heightened threat level operations or in the event of emergencies. Operationally, the functions performed by the K-9s, the officers and the control booth operator are not efficient. Lack of kennel space limits the amount of time the K-9s can perform their mission during excessive weather conditions due to the less than optimal environment. The officers booth lacks proper heating and cooling, and there is no on-site restroom facility for security personnel. The current temporary facility also lacks dedicated equipment storage space for both the officers' and K-9 equipment.

The existing restroom facility is a temporary trailer that requires regular pumping. This facility was provided as a temporary solution to the lack of restroom facilities for the 9/11 Memorial Site. If not provided, the nearest restroom facilities would either be inside the Pentagon Building itself (requiring screening to enter), or the Pentagon City Fashion Center, approximately 0.5 miles from the Memorial.

12. SUPPLEMENTAL DATA:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design/Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	FEB 2020
(b) Percent of Design Completed as of January 2022:	35%
(c) Design or RFP Complete:	NOV 2021
(d) Total Design Cost ($000):	$667
(e) Energy Study and/or Life Cycle Analysis performed:	No
(f) Standard or Definitive Design Used:	No
(3) Construction Data:	
(a) Contract Award:	DEC 2022
(b) Construction Start:	SEP 2023
(c) Construction Complete:	SEP 2025

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

Equipment Nomenclature	Procuring Appropriation	FY Appropriated of Requested	Cost ($000)
FFE	PRMRF	2025	$150
Security Equipment	PRMRF	2025	$550

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FY 2023 Energy Resilience and Conservation Investment Program (ERCIP)
Project List by State/Country

State / Country	Component	Project Title	Project Type	Authorization ($000)	Page
Alabama					
Missile and Space Intelligence Center, Redstone Arsenal	DIA	Backup Power Generation	ER	$10,700	114
AL Totals		**1 Project**		**$10,700**	
California					
NAVBASE Ventura County, Pt. Mugu	Navy	Ground Mounted Solar Photovoltaic System	ER	$13,360	116
Marine Corps Mountain Warfare Training Center Bridgeport	Marine Corps	Microgrid and Backup Power	ER	$25,560	119
CA Totals		**2 Projects**		**$38,920**	
Florida					
Naval Air Station Jacksonville	Navy	Facility Energy Operations Center Renovation	ER	$2,400	122
Patrick Space Force Base	Space Force	Underground Electric Distribution System	ER	$8,400	124
Patrick Space Force Base	Space Force	Water Distribution Loop	WR	$7,300	126
FL Totals		**3 Projects**		**$18,100**	
Georgia					
Fort Stewart-Hunter Army Airfield	Army	Power Generation and Microgrid	ER	$25,400	128
Naval Submarine Base Kings Bay	Navy	SCADA Modernization	ER	$11,200	131
GA Totals		**2 Projects**		**$36,600**	
Hawaii					
Joint Base Pearl Harbor-Hickam	Navy	Primary Electrical Distribution	ER	$25,000	133
HI Totals		**1 Project**		**$25,000**	
Kansas					
Fort Riley	Army	Power Generation and Microgrid	ER	$25,780	135
KS Totals		**1 Project**		**$25,780**	
Maryland					
Fort George G. Meade	NSA	Reclaimed Water Infrastructure Expansion	WR	$23,310	138
MD Totals		**1 Project**		**$23,310**	

FY 2023 Energy Resilience and Conservation Investment Program (ERCIP)
Project List by State/Country

State / Country	Component	Project Title	Project Type	Authorization ($000)	Page
Texas					
Fort Hood	Army	Power Generation and Microgrid	ER	$31,500	140
U.S. Army Reserve Center, Conroe	Army	Power Generation and Microgrid	ER	$9,600	143
TX Totals		**2 Project**		**$41,100**	
Virginia					
NAVSUPPORT Hampton Roads	Navy	Primary Distribution Substation	ER	$19,000	145
NAVSUPPORT Hampton Roads	Navy	Backup Power Generation	ER	$3,400	147
NCE Springfield, Ft Belvoir	NGA	Chilled Water Redundancy	WR	$1,100	149
VA Totals		**3 Projects**		**$23,500**	
Overseas Projects					
Djibouti					
Camp Lemonnier	Navy	Enhanced Energy Security and Control Systems	EC	$24,000	151
Djibouti Totals		**1 Project**		**$24,000**	
Guam					
NAVBASE Guam - Joint Region Marianas	Navy	Electrical Distribution System	ER	$34,360	154
Guam Totals		**1 Project**		**$34,360**	
Japan					
Kadena Air Base	DoDEA	Lighting Upgrades	EC	$780	156
Japan Totals		**1 Project**		**$780**	
Kuwait					
Camp Arifjan	Army	Power Generation and Microgrid	ER	$26,850	158
Kuwait Totals		**1 Project**		**$26,850**	
		CONUS ERCIP Construction Project Totals (16)		**$243,010**	
		OCONUS ERCIP Construction Project Totals (4)		**$85,990**	
		ERCIP Construction Project Totals (20 Projects)		**$329,000**	
		ERCIP P&D Funds Total		**$224,250**	
		ERCIP Program Total		**$553,250**	

1 ER and WR is for Energy/Water Resilience projects; EC and WC is for Energy/Water Conservation projects

FY 2023 Energy Resilience and Conservation Investment Program (ERCIP)
Project List by Component

Component	Location	State/ Country	Project Title	Project Type	Project Cost ($000)
Army					
98162	Fort Stewart	GA	Power Generation and Microgrid	ER	$25,400
98161	Fort Riley	KS	Power Generation and Microgrid	ER	$25,780
99143	Fort Hood	TX	Power Generation and Microgrid	ER	$31,500
94849	Camp Arifjan	Kuwait	Power Generation and Microgrid	ER	$26,850
Army Program Totals			**4 Projects**		**$109,530**
Army Reserve					
93347	U.S. Army Reserve Center, Conroe	TX	Power Generation and Microgrid	ER	$9,600
Army Reserve Program Totals			**1 Project**		**$9,600**
Navy					
P-615	NAVBASE Ventura County, Pt. Mugu	CA	Ground Mounted Solar Photovoltaic System	ER	$13,360
RM20-0515	Naval Air Station Jacksonville	FL	Facility Energy Operations Center Renovation	ER	$2,400
P-694	Naval Submarine Base Kings Bay	GA	SCADA Modernization	ER	$11,200
P-8005	Joint Base Pearl Harbor-Hickam	HI	Primary Electrical Distribution	ER	$25,000
P1335	NAVSUPPORT Hampton Roads	VA	Primary Distribution Substation	ER	$19,000
P1401	NAVSUPPORT Hampton Roads	VA	Backup Power Generation	ER	$3,400
P-950	Camp Lemonnier	Djibouti	Enhanced Energy Security and Control Systems	EC	$24,000
P-806	NAVBASE Guam - Joint Region Marianas	Guam	Electrical Distribution System	ER	$34,360
Navy Program Totals			**8 Projects**		**$132,720**
Space Force					
DBEH071588	Patrick Space Force Base	FL	Underground Electric Distribution System	ER	$8,400
DBEH161571	Patrick Space Force Base	FL	Water Distribution Loop	WR	$7,300
Space Force Program Totals			**2 Projects**		**$15,700**

FY 2023 Energy Resilience and Conservation Investment Program (ERCIP)
Project List by Component

Component	Location	State/ Country	Project Title	Project Type	Project Cost ($000)
USMC					
P-481	Marine Corps Mountain Warfare Training Center Bridgeport	CA	Microgrid and Backup Power	ER	$25,560
USMC Program Totals			**1 Project**		**$25,560**
DIA					
DIA2023-001	Redstone Arsenal	AL	Backup Power Generation	ER	$10,700
DIA Program Totals			**1 Project**		**$10,700**
NGA					
40	NCE Springfield, Ft Belvoir	VA	Chilled Water Redundancy	WR	$1,100
NGA Program Totals			**1 Project**		**$1,100**
NSA					
40409	Fort George G. Meade	MD	Reclaimed Water Infrastructure Expansion	WR	$23,310
NSA Program Totals			**1 Project**		**$23,310**
DoDEA					
PACE21013	Kadena Air Base, Kadena High School	Japan	Lighting Upgrades	EC	$780
DoDEA Program Totals			**1 Project**		**$780**
ERCIP Construction Project Totals			**20 Projects**		**$323,000**

Energy/Water Resilience Projects (18)	**$304,220**
Energy/Water Conservation Projects (2)	**$24,780**
ERCIP Construction Projects Total (20)	**$329,000**
ERCIP P&D Funds Total	**$224,250**
ERCIP Program Total	**$553,250**

1 ER and WR is for Energy/Water Resilience projects; EC and WC is for Energy/Water Conservation projects

1. COMPONENT Defense Wide – DIA	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Missile and Space Intelligence Center, Redstone Arsenal Huntsville, Alabama	Backup Power Generation

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81117	DIA2023-1	10,700

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**8,830**
Backup Power Generation (CC81117)	KW	3,500	1,780	(6,230)
Electrical Controls, Switchgear, and Distribution Panels	LS	--	--	(2,600)
SUPPORTING FACILITIES				**30**
Site Improvements	LS	--	--	(30)
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**8,860**
CONTINGENCY (10%)				886
TOTAL CONTRACT COST				**9,746**
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				556
DESIGN/BUILD – DESIGN COST (4%)				390
TOTAL REQUEST				**10,691**
TOTAL REQUEST (ROUNDED)				**10,700**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
Providing Missile and Space Intelligence Center (MSIC) with uninterruptable power will entail installing multiple generators, 3.75MW of uninterruptable power source (UPS) backup power for critical loads and the ability to independently accomplish load bank testing on the generators and UPS without power interruption. Installation also includes power transformers, switchgear, distribution panels as well as new power, control and communication cabling, control hardware and building management system (BMS) programming. New civil foundations and an additional underground natural gas line will be installed.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
This project provides energy resiliency by adding uninterruptible electrical power to the MSIC facility through the installation of a new UPS system and a set of new generators.

REQUIREMENT:
There are various facilities that perform essential mission functions that are critical to the DOD and IC and have zero tolerance for power interruptions. Mission availability for this facility is 99.99%; there is no tolerance for downtime. These facilities contain numerous laboratories and scientific computing systems. Power failure to these facilities during operations risk damage to high value equipment and components, corruption of data results essential to DIA/MSIC's mission and potential delays in MSIC's ability to respond to high priority intelligence requirements.

CURRENT SITUATION:
DIA's MSIC facility is plagued by frequent short duration outages and intermittent extended outages both of which have significant impact on mission critical systems and functions. The existing power infrastructure supports only 30% of these mission critical facilities peak demands. There is currently a single 1 MW generator that, given its age, can only provide 75% of its rated capacity. This falls far short of the 2.31 MW peak demand required to support the critical loads of the (10)

1. COMPONENT Defense Wide – DIA	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Missile and Space Intelligence Center, Redstone Arsenal Huntsville, Alabama	Backup Power Generation

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81117	DIA2023-1	10,700

prioritized MSIC facilities. The emergency power system load capability was sufficient to power MSIC's critical systems in 1998 but is severely inadequate to support current critical systems. The current capability can only supply power for very minimal mission accomplishment and will likely endanger MSICs ability to support some new mission requirements.

As noted above, there is limited uninterruptable emergency power provided by a reduced capacity 1 MW natural gas generator. The emergency power system only serves a very limited portion of Bldg. 4545 and the Central Plant Bldg 4543. The emergency power system is connected to a Pure Wave UPS unit (installed in 2004) which eliminates voltage disturbances and provides seamless transfer between the utility and the emergency generator. MSIC is supplied from redundant 12.470 KV feeds from two unit substations that are fed from Primary Substation 3; creating a single point of failure.

Redundancy of service, transmission and generation to MSIC as specified above decreases the possibility of significant mission downtime and equipment damage due to loss or power, but does not prevent outages. To combat the frequent power outages, the emergency power system is automatically energized with power outage and is constantly monitored via contract with the UPS manufacturer. Any potential system conditions that might affect the availability of the system to protect critical loads are reported immediately. The contractor also provides annual preventative maintenance services and recommends any corrective or improvement measures necessary for reliable operation.

IMPACT IF NOT PROVIDED:
Short duration outages will continue to be frequent, along with intermittent extended outages. These outages will have a significant impact on mission critical systems and functions. These facilities contain numerous laboratories and scientific computing systems that could be damaged or degraded during power outages. Power failure to these facilities during operations risk damage to high value equipment and components, corruption of data results essential to DIA/MSIC's mission and potential delays in MSIC's ability to respond to high priority intelligence requirements.

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: ENERGY RESILIENCE

c. Rationale IAW 10 USC 2914:
The MSIC Shelby complex has a critical mission peak demand of 2.31 MW (2019 data) and only a single 1,000 kW emergency backup generator on site. The MSIC complex has experienced an average of 29 outages annually, for the last 5 years. A major outage in 2011 lasted more than a week and caused critical service disruptions across the IC. Mission availability for this facility is 99.999%; there is no tolerance for downtime. Utility reliability is notoriously low as evidenced by the frequent power outages annually. The project includes providing procurement, installation, testing, and commissioning of all electrical, control and civil work required to provide an additional 3.5MW of natural gas generation capacity, 3.75MW of UPS backup power and the ability to independently accomplish load bank testing on the seven generators and UPS without power interruption.

Office of the Deputy Assistant Secretary of Defense (Environment & Energy Resilience)
703-843-0159

1. COMPONENT Defense Wide – Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAVBASE Ventura County, Pt. Mugu, San Nicolas Island, California	Ground Mounted Solar Photovoltaic System

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81150	P615	13,360

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**6,590**
Ground Mounted Solar Photovoltaic System (CC81150)	KW	1,300	2,930	(3,810)
Special Costs	LS	--	--	(2,780)
SUPPORTING FACILITIES				**4,480**
Special Construction Features	LS	--	--	(70)
Environmental Mitigation	LS	--	--	(1,510)
Pavement Facilities	LS	--	--	(400)
Site Preparations	LS	--	--	(380)
Special Foundation Features	LS	--	--	(930)
Electrical Utilities	LS	--	--	(1,180)
Communications & Security	LS	--	--	(10)
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**11,070**
CONTINGENCY (10%)				1,110
TOTAL CONTRACT COST				**12,180**
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				694
DESIGN/BUILD – DESIGN COST (4%)				487
TOTAL REQUEST				**13,361**
TOTAL REQUEST (ROUNDED)				**13,360**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Project constructs a fix-tilt, ground mounted system Solar Photovoltaic System (SPVS) at San Nicolas Island (SNI), Naval Base Ventura County (NBVC) that will interface with the installation power grid. The SPVS minimum expected generation is 1,300 Kilowatts (kW) Direct Current (DC) rating at PTC (PVUSA Test Conditions) to ensure a durable, efficient and reliable system with a useful life of 25 to 40 years. The SPVS will be located within the vicinity of SNI Powerhouse, Building 114, on approximately six to nine acres of undeveloped land. The SPVS design will fully integrate operation with existing on-site generation diesel, battery energy storage system, and wind turbine generators to efficiently reduce fossil fuel generation and increase renewable energy generation, improve SNI energy security and resiliency and improve overall island power management.

Special costs include barging and flights to and from SNI and labor per diem must be included as part of the project construction. Special construction features include ten-foot-long bird spikes. The bird spike strips will be mounted atop the solar panels to keep birds off and prevent bird waste accumulation on the face of the solar modules. Heavily soiled solar modules will cause power output reduction. Special foundation features include photovoltaic array structure, reinforced concrete foundations and anchoring criteria. Electrical utilities include utility trenches, DC and alternating current (AC) cabling, underground ducts and manholes, conduit, step-up transformers with primary and secondary over-current protection and lighting. Communications and security include fiber optic cabling.

1. COMPONENT Defense Wide – Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAVBASE Ventura County, Pt. Mugu, San Nicolas Island, California	Ground Mounted Solar Photovoltaic System

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81150	P615	13,360

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
Project installs a photovoltaic system to provide an alternate source of electrical energy on SNI.

REQUIREMENT:
The SPVS provides a renewable and reliable energy source that will supplement the battery storage system and wind turbine generators. The SPVS will be able to charge the battery storage and, at the same time, provide power when there is no wind. The SPVS could function as a stand-by/back-up power source for SNI when there is little to no wind, increasing the reliability of electrical power for critical facilities on the island. This project promises to provide additional flexibility, responsiveness, and capability to the islands micro-grid system.

This project will provide a second source of renewable energy for SNI that will offset and reduce the amount of fossil fuel consumed in the SNI power plant and work in conjunction with the P613 energy storage system to provide a third independent energy source to provide electric power to critical mission loads on the island.

Concurrent with the federal energy reduction and renewable energy goals, this project provides for the replacement of traditional, fossil-fueled energy sources with renewable energy while also reducing future facility operating costs. This reduction in Operations and Maintenance cost allows more of the limited DON financial resources to be applied to core mission requirements.

CURRENT SITUATION:
SNI is a remote, operating Special Area of NBVC off the coast of Southern California that includes an Outlying Landing Field and RDT&E facilities for Naval Air weapons systems. It is a completely self-contained operating system in regards to the supporting utility infrastructure. The island installation typically supports a continuous population of approximately 150-250 personnel on the island during high Military Readiness, Operations Tempo periods.

Currently, a diesel power plant is the primary generation source of electricity, which requires the barging of diesel fuel to the island at significant cost and effort. There is also a limited capacity to store reserve supplies of fuel on the island. To utilize renewable energy and reduce the consumption of diesel fuel on the island, renewable generating capabilities include a 700 kW wind turbine generator farm and a planned energy storage system.

IMPACT IF NOT PROVIDED:
Not having the SPVS will result in loss of renewable energy that could be captured and used to offset the quantity of diesel fuel that needs to be shipped to and burned on the island. Higher levels of emissions from the diesel power plant will continue rather than be reduced through a combination of capturing and utilizing more renewable energy and improved operational efficiency of the power plant. Additional redundancy for the diesel power plant will not be gained. Important operational experience and data pertinent to the operation of stand-alone micro-grid systems for the Navy and DOD could not be captured if this project is not completed.

1. COMPONENT Defense Wide – Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAVBASE Ventura County, Pt. Mugu, San Nicolas Island, California	Ground Mounted Solar Photovoltaic System

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81150	P615	13,360

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: ENERGY RESILIENCE

c. Rationale IAW 10 USC 2914:
This project proposes to install an additional renewable energy source for the SNI electrical grid. This SPVS will augment the existing diesel generators and wind turbine generators along with the FY20 authorized P613 energy storage system (ESS). The addition of the SPVS is expected to significantly increase the ability for SNI to operate without diesel fueled generation for extended periods of time, reducing the amount of fossil fuel needed to operate the island and extend the usable duration of the limited fuel supply stored on the island. This project will improve the overall energy resilience of SNI.

Office of the Deputy Assistant Secretary of Defense (Environment & Energy Resilience)
703-843-0159

1. COMPONENT Defense Wide - USMC	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Marine Corps Mountain Warfare Training Center Bridgeport, California	Microgrid and Backup Power

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81150	P-481	25,560

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**21,180**
Primary Power Generation, PV (CC81150)	MW	2	2,150,000	(4,300)
Backup Power Generation, Coleville (CC81110)	KW	750	2,400	(1,800)
Backup Power Generation, Bridgeport (CC81110)	KW	550	1,815	(1,000)
Battery Energy Storage System (BESS) and Inverter	LS	--	--	(2,630)
Microgrid Controls	LS	--	--	(1,950)
Building Energy Management Information Systems / Control Room	LS	--	--	(5,580)
Engineering Studies	LS	--	--	(240)
Training, Simulation, and Documentation	LS	--	--	(980)
Cybersecurity	LS	--	--	(2,700)
SUPPORTING FACILITIES				**0**
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**21,180**
CONTINGENCY (10%)				2,118
TOTAL CONTRACT COST				**23,298**
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				1,328
DESIGN/BUILD – DESIGN COST (4%)				932
TOTAL REQUEST				**25,558**
TOTAL REQUEST (ROUNDED)				**25,560**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				7,229

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
This project will install a 2 MW ground-and roof-mount solar photovoltaic (PV) system, a 3 MWh battery energy storage system (BESS), energy expansion only, and a generator on the main Bridgeport base. It will provide electrical infrastructure for the microgrid, microgrid controls that will automatically control generation and storage assets during normal and emergency operations, and an Energy Management Information System (EMIS). The project will also build a central control room; install a generator, a generator building, and a generator circuit at the Coleville housing area; and conduct engineering studies to support the microgrid. In addition, this project will provide a robust operation, maintenance, and sustainment plan that includes training, simulations programs, and documentation. The facility related control systems (FRCSs) will be cyber-secured.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
Provide generation, storage, electrical upgrades, controls, communication, system training and documentation, studies, and cybersecurity to address the MWTC's resilience requirements.

REQUIREMENT:
The Marine Corps Mountain Warfare Training Center Bridgeport (MWTC) is a mountain warfare training center whose mission is to conduct Marine Air Ground Task Force exercises, develop warfighting doctrine, and support research,

1. COMPONENT Defense Wide - USMC	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Marine Corps Mountain Warfare Training Center Bridgeport, California	Microgrid and Backup Power

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81150	P-481	25,560

development, testing, and evaluation (RDT&E) of equipment for use in mountain warfare operations. Readiness is dependent on having a reliable and resilient energy infrastructure.

The project will enhance energy security (e.g., reliability, resilience, and efficiency) in accordance with DoDI-4170.11 and MCICOM Energy Security Policy Letter 9-19. It will also ensure cybersecurity of the microgrid in accordance with the FRCS in accordance with the Department of Defense Risk Management Framework (RMF), DoDI 8500.01, DoDI 8510.01, UFCs, and other Marine Corps cybersecurity certification and accreditation requirements. The end state of this project is a reliable, resilient, efficient, and cybersecure microgrid that will operate critical installation services and mission essential functions off the grid for several weeks with N+1 redundancy.

CURRENT SITUATION:

The installation is the last customer on the Southern California Edison utility feed and the base is located in a remote area of the Sierra mountains in California. Every year, the base experiences power outages due to extreme snowfall, sub-zero temperatures, forest fires, heat waves, power quality issues, and other planned and unplanned utility grid events. The base regularly operates, from minutes up to weeks, off a single generator with aged infrastructure and inadequate controls. This is a significant vulnerability. There is no natural gas (the closest connection option is over 60 miles away), so the base trucks in propane for heating and domestic hot water, and diesel for backup generators. Bridgeport started addressing its energy vulnerabilities through the FY2019 ERCIP project P-480: Resilience Phases 1 and 2. That project focuses on enhancing the reliability and redundancy of the electrical distribution system.

Currently, MWTC performs around six training cycles per year. With temperatures that drops below -20°F, all base activities are reliant upon consistent access to energy. Without energy planned training may be compromised due to facility infrastructure failure or possibly destruction at these extreme temperatures, base personnel will be unable to perform any work or meet minimum standards for first responders, and infrastructure aboard base is at risk.

Annually, the base experiences multiple utility outages whose duration ranges from one minute to two months. Outages occur because of routine maintenance/repair work, equipment failures, natural disasters (primarily wild fires and earthquakes), public safety power shut downs, requests to participate in demand reduction response, and extreme weather events. During the winter season (October - April) snow accumulation can reach 6 to 8 feet. Annual temperatures range from -20 degrees to +90 degrees Fahrenheit. Additionally, wildfires have burned up to 30+ utility poles directly supporting the power transmission to the MCMWTC. These extreme weather conditions oftentimes result in utility disruptions.

The MWTC was established in 1951. While some upgrades have been done, most existing building and utility infrastructure is 30 to 40 years old. While the FY19 ERCIP Project P-480: Resilience Phase 1 and 2 will provide upgrades to the existing electrical infrastructure, but the base still has significant energy gaps. The existing 1 MW generator is the primary backup power supply for the base. If it goes down, the base will utilize the distribution center disconnect switches installed in P-480 Phase 1 and 2 project to rotate trailer mounted generators throughout the base camp. This is an emergency solution not intended to be used for extended outages. The existing solar photovoltaic systems and the P-480 BESS do not provide enough power to meet installation loads throughout the day and generate enough energy to store for use during the evening during emergencies. The existing FRCSs are not cybersecure or centrally monitored or controlled and are largely passive in nature; therefore, the systems do not provide the required information to automatically operate, control, and optimize use of the microgrid. The Coleville Housing area, which is 24 miles from the main Bridgeport base and also fed by a single feed, does not have any backup power. When there is a loss of grid power or a voltage fluctuation event (common), the entire housing community and supporting facilities are impacted.

1. COMPONENT Defense Wide - USMC	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Marine Corps Mountain Warfare Training Center Bridgeport, California	Microgrid and Backup Power

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81150	P-481	25,560

IMPACT IF NOT PROVIDED:
Bridgeport will continue to rely on a single fossil fuel generator to be the primary microgrid energy resource. The generator will have basic transfer capability, but will have no real “smart” or “advanced” microgrid capability to allow use of onsite solar PV or battery resources. Bridgeport will struggle to continuously sustain its mission because a reliable source of power is critical for winter training, doctrine development, and RTD&E in Bridgeport's unforgiving, remote, and arduous location in California's Sierra mountains.

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000):

(a) FY19 ERCIP P-480	4,729
(b) Furniture, Fixtures, and Equipment	2,500

b. Project Type: ENERGY RESILIENCE

c. Rationale IAW 10 USC 2914:
MCMWTC Bridgeport’s readiness is dependent on having a reliable and resilient energy infrastructure. This project supports mission assurance and readiness by providing the entire base with a reliable, resilient, and cybersecure microgrid that enables islanding and continuity of operations for 14+ days. This project supports mission critical functions by allowing all functions, including mission critical training, to continue operations without disruption since 100% of the base will be powered by the systems constructed in FY19 ERCIP P-480 and this project (FY23 ERCIP P-481). This project addresses known vulnerabilities associated with aging infrastructure, potential climate impacts (forest fires, blizzards, earthquakes), and manmade threats (terrorist attack, cyberattack, etc.). Vulnerabilities are mitigated by hardening the electrical infrastructure, increasing energy reliability by replacing aged infrastructure, enhancing the resilience by adding redundant onsite power systems, and improving cybersecurity by securing accrediting the system. All this work positions MCMWTC Bridgeport to operate without the commercial power for extended durations.

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703-843-0159

1. COMPONENT Defense Wide – Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Naval Air Station Jacksonville Jacksonville, Florida	Facility Energy Operations Center Renovation

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	89051	RM 20-0515	2,400

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**1,920**
Facility Energy Operations Center for Regional ICS, FAC#506 (CC89051)	SF	4,196	418.02	(1,750)
Operations and Maintenance Support Info (OMSI) and Commissioning	LS	--	--	(70)
Cybersecurity	LS	--	--	(100)
SUPPORTING FACILITIES				**0**
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**1,920**
CONTINGENCY (10%)				192
TOTAL CONTRACT COST				**2,112**
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				120
DESIGN/BUILD – DESIGN COST (4%)				92
TOTAL REQUEST				**2,335**
TOTAL REQUEST (ROUNDED)				**2,400**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				556

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
Project renovates and reconfigures the Facility Energy Operations Center (FEOC) operational workspace. Reconfiguration will include but is not limited to the relocation of interior walls to provide private offices, open offices, breakroom, bathrooms, janitorial and communications rooms. Renovation of interior finishes shall be provided in this project. This project will reconfigure HVAC, electrical, plumbing, fire suppression and telecommunication utilities to support the FEOC operational functions. Security requirements for FEOC will be provided and integrated into existing BLDG 506 requirements. Specific coordination with Naval Computer and Telecommunications Area Master Station (NCTAMS) shall be required to ensure that NAS JACKSONVILLE secure communications and operations will not be impacted during or after renovation of second floor spaces.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
Project renovates the FEOC operational workspace.

REQUIREMENT:
This project invests in energy resilience to conserve energy, decrease utility costs, and increase Navy's climate resilience. Requirement was calculated using UFC 2-000-05N Facility Planning Criteria for Navy/Marine Corps Shore Installations for Category Code 89051 and was calculated to support a Regional ICS Monitoring Station. The ICS Monitoring Station is the utility support facility that houses the operational components of the ICS as well as the personnel that operate the system.

CURRENT SITUATION:
Currently the ICS Monitoring Station and staff occupy one office in BLDG 103. As the staffing and systems to be monitored grow, the current space will not be able to accommodate the operation.

1. COMPONENT Defense Wide – Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Naval Air Station Jacksonville Jacksonville, Florida	Facility Energy Operations Center Renovation

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	89051	RM 20-0515	2,400

IMPACT IF NOT PROVIDED:
NAVFAC SE will not have the required facility to provide ICS Monitoring and the installation will not be able to achieve the increased reliability and energy resiliency and conservation this project affords.

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000):

(a) Facility-Related Controls System (FRCS) — 556

b. Project Type: ENERGY RESILIENCE

c. Rationale IAW 10 USC 2914:
This project improves responses to disruptions by identifying and prioritizing needed utility and equipment O&M support for critical missions and loads within the installations. It enables near real-time monitoring and control of Commander, Navy Region Southeast (CNRSE) Installations' Utility Supervisory Control and Data Acquisition (SCADA) and FRCS systems at the regional level. This project supports all 17 CNRSE's installations which include CNIC, NAVAIR, NAVSEA, TRIDENT Refit Facility (TRF), TRIDENT Training Facility (TTF), Strategic Weapons Facility Atlantic (SWFLANT), and other non-Navy or Non-DoD (e.g. USCG and USCBP) critical missions and operations.

Office of the Deputy Assistant Secretary of Defense (Environment & Energy Resilience)
703-843-0159

1. COMPONENT Defense Wide - USSF	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Patrick Space Force Base Cape Canaveral Space Force Station Site #1 Cape Canaveral, Florida	Underground Electric Distribution System

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	812225	DBEH071588	8,400

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**5,970**
Primary Distribution Line Underground (CC812225)	LF	10,000	596.32	(5,960)
Cybersecurity	LS	--	--	(10)
SUPPORTING FACILITIES				**1,540**
Site Preparation	LS	--	--	(1,410)
Pavements	LS	--	--	(20)
Demolition	LS	--	--	(110)
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**7,510**
CONTINGENCY (5%)				376
TOTAL CONTRACT COST				**7,886**
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				449
TOTAL REQUEST				**8,335**
TOTAL REQUEST (ROUNDED)				**8,400**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
Replaces the East Z-Line, the overhead electric distribution line to the Poseidon Wharf, with an underground electric distribution system in approximately the same geographical location. Replaces the main line and all laterals; replaces overhead transformers with new correctly sized pad mount transformers. Replaces the West Z-Line, the overhead electric distribution line to the Army Docks, with a new underground electric distribution system. All overhead transformers to be replaced with new correctly sized pad mount transformers. All transformers, laterals and other electrical components will be sized and installed per the study/design in accordance with all applicable UFC's, AFI's, NFPA and other standards codes.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
This project replaces the overhead electric distribution line with an underground electric distribution system.

REQUIREMENT:
Cape Canaveral Space Force Station (CCSFS) is the premier gateway to space and the Space Launch Delta 45's primary mission is command and control of the Eastern Range Weapons systems and supporting National Security DoD payloads, commercial, and human space flight launches. One of the critical requirements for successful rocket launches is a reliable electrical distribution infrastructure. Reliable and resilient electrical distribution infrastructure is required at CCSFS supporting critical launch functions. Additionally, this will provide reliable launch infrastructure, launch teams, and seamless partnership with launch and satellite programs.

This project will update the electrical line infrastructure to use current equipment and part spares that are available in industry. Current infrastructure maintenance may be impeded due to lack of spares based on the age of the electrical line.

1. COMPONENT Defense Wide - USSF	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Patrick Space Force Base Cape Canaveral Space Force Station Site #1 Cape Canaveral, Florida	Underground Electric Distribution System

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	812225	DBEH071588	8,400

This project would decrease downtime for repair and unanticipated costs by using current spares, as opposed to antiquated or phased-out spares.

CURRENT SITUATION:
The components on Z-line are over 45 years old and past their useful life cycle. Z-line is currently an overhead system and is subject to damage from lightning, high winds, hurricanes, animal entrapment. The CCSFS installation location is less than one mile from a salt water source, causing all metal components to deteriorate at an increased rate. Maintenance on the overhead lines is very costly and time consuming. There have been 4 unscheduled outages on Z-line in the past year and 10 in the past 2.5 years. Unscheduled electrical outages and power fluctuations are becoming more common due to the above conditions as Z-line is one of the last remaining areas of overhead electric on CCSFS. In addition to rocket launches, CCSFS and Z-line also support Strategic Weapons Systems for the Navy including Test and Evaluation of the Ballistic Missile submarines that require reliable power while in port. Another key component for installing the new lines underground is potential impact to rockets, boosters, missiles, satellites and other payloads. These mission critical assets are transported along CCSFS roadways and have a strict separation distance between the assets and the overhead power lines. This is becoming an issue since the rockets/boosters/missiles are getting larger.

IMPACT IF NOT PROVIDED:
Failure to replace the current overhead Z-line electrical distribution system with an underground distribution system could result in major impacts to mission milestones including launch scrubs, delays, or aborts. A scrubbed launch due to an electrical issue will result in complete mission failure. Depending on the payload and proposed orbit, these payloads have a very tight window to launch. Some launch windows only come once or twice a year, so a scrubbed launch could result in major delays to national security or manned spaceflight missions. These adverse mission impacts would result in extra costs to the government and/or its mission partners. These additional costs due to unplanned outages or power fluctuations could range from several thousand to several millions of dollars depending on when the launch was aborted. These unplanned events could potentially affect port schedules and the overall mission of CCSFS.

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: ENERGY RESILIENCE

c. Rationale IAW 10 USC 2914:
Project directly remediates disruption risk by providing new undergrounded electrical circuits in the vicinity of critical loads and outside of biologically sensitive areas. The area is susceptible to hurricane and storm damage, as exhibited by past tropical storm activity impacting the county (e.g., Charley, Frances, and Jeanne in 2004, Matthew in 2016, Irma in 2017). This project would eliminate vulnerability to critical loads supporting Falcon 9 launches, Navy missions, and port operations.

Office of the Deputy Assistant Secretary of Defense (Environment & Energy Resilience)
703-843-0159

1. COMPONENT Defense Wide - USSF	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Patrick Space Force Base Cape Canaveral Space Force Station Site #1 Cape Canaveral, Florida	Water Distribution Loop

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	842245	DBEH161571	7,300

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**5,630**
Water Distribution Mains (CC842245)	LF	41,505	129.15	(5,360)
Water Pump Station (CC842249)	KG	1.5	180,000	(270)
SUPPORTING FACILITIES				**910**
Pavements	LS	--	--	(30)
Utilities	LS	--	--	(20)
Site Preparation	LS	--	--	(840)
Demolition	LS	--	--	(20)
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**6,540**
CONTINGENCY (5%)				327
TOTAL CONTRACT COST				**6,867**
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				391
DESIGN DURING CONSTRUCTION (DDC)				36
TOTAL REQUEST				**7,294**
TOTAL REQUEST (ROUNDED)				**7,300**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
The scope of the proposed project is to install 41,505 linear feet of new high density polyethylene (HDPE) potable water mains, with booster pumps with variable frequency drive (VFD) motors and controls and isolation valves, to provide looped water systems to the Integrate-Transfer-Launch (ITL) and north areas at Cape Canaveral Space Force Station (CCSFS). Construct a new pump house and install a new circulation pump with VFD motor and associated controls, power, and components in support of the looped water systems. All water mains, pumps, and electrical components will be sized and installed in accordance with all applicable standards and codes.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
This project installs a new water distribution loop at CCSFS.

REQUIREMENT:
Space Launch Delta 45's (45 SLD) mission is to provide the activities and resources for safety of flight, range instrumentation, infrastructure, and scheduling required to support and assure space and ballistic launches, and other operations. 45 SLD must also provide reliable launch infrastructure, launch teams, and seamless partnership with launch and satellite programs. The placement of new water mains to form a water loop for the ITL and North Launch Areas of CCSFS will create an additional potable water supply path for mission-critical facilities. Potable water supply for these facilities is critical for indoor environmental control to process payloads and deluge water to conduct launch missions. This project would decrease the likelihood of infrastructure-driven launch mission delays and scrubbed launch missions. This project will eliminate the need to flush 20.9 million gallons (MGal) per year while ensuring that potable water delivered to facilities meets drinking standards as required by the Clean Water Act. This reduction of water consumption for flushing will also remove costs and labor associated with increased water treatment and equipment.

1. COMPONENT Defense Wide - USSF	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Patrick Space Force Base Cape Canaveral Space Force Station Site #1 Cape Canaveral, Florida	Water Distribution Loop

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	842245	DBEH161571	7,300

CURRENT SITUATION:
CCSFS is the premier gateway to space and the 45 SLD primary mission is command and control of the Eastern Range Weapons systems and supporting National Security DoD payloads, commercial, and human space flight launches. One of the critical requirements for successful rocket launches is a reliable water distribution infrastructure. The multiple stakeholders at this installation all have high water demand. These customers include Space Exploration Technologies (SpaceX), Space Florida, and United Launch Alliance (ULA). Furthermore, CCSFS must flush 1.5 to 3 million gallons of water every month to maintain drinking water quality throughout the installation. Re-circulating and re-chlorinating potable water in the ITL and North Cape areas would significantly reduce flushing, thereby reducing energy and water usage.

IMPACT IF NOT PROVIDED:
The existing mains would fail and directly impact launch capability. The ITL and North Cape areas have a single source of potable water supplied, in part, through 10,560 linear feet of 12 inch transite pipe on Phillips Parkway from Titan III Road to Patrol Road. The transite pipes were installed in the 1950s and are beyond its useful life. Most of the facilities in the ITL and North Cape areas are launch critical. A failure of the existing mains would directly impact launch capability. Further, CCSFS must flush 1.5 to 3 million gallons of water every month to maintain drinking water quality throughout the Installation, which would continue should this project not be implemented.

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: WATER RESILIENCE

c. Rationale IAW 10 USC 2914:
Project directly remediates disruption risk by providing a redundant potable water supply to critical facilities in the ITL and North Areas of CCSFS. Lack of potable water supply has prompted immediate installation response to provide potable water from filled deluge tanks and water towers in order to provide water for cooling tower and chiller systems of critical facilities. This project would result in the potable water system being able to function while having an unscheduled outage in one path of the potable water pathway.

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703-843-0159

1. COMPONENT Defense Wide - Army	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Fort Stewart-Hunter Army Airfield Fort Stewart, Georgia	Power Generation and Microgrid

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81117	98162	25,400

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**20,650**
Primary Power Generation (CC81117)	KW	8,300	1,837	(15,250)
Microgrid Controls, Switchgear, Switches, and Breakers	LS	--	--	(3,610)
Building Information Systems, Integration, and Commissioning	LS	--	--	(520)
Interconnection, Engineering Studies, and Load Bank Testing	LS	--	--	(630)
Cybersecurity	LS	--	--	(610)
SUPPORTING FACILITIES				**1,250**
Gas Distribution	LS	--	--	(350)
Electric Utility Connection	LS	--	--	(170)
Water Utility Connection	LS	--	--	(40)
Site Improvements	LS	--	--	(690)
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**21,900**
CONTINGENCY (10%)				2,190
TOTAL CONTRACT COST				**24,090**
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				1,373
TOTAL REQUEST				**25,410**
TOTAL REQUEST (ROUNDED)				**25,400**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
Construct a natural gas (NG) generation plant, with existing Reciprocating Internal Combustion Engines (RICE) generators, connected to the installation's distribution switching station, owned by Canoochee Electric Membership Cooperative (CEMC), and to the installation's natural gas infrastructure. In addition to the generating equipment, the plant will consist of generators, a newly installed microgrid control system, and a paralleling switchgear. The microgrid control system will provide smart switching capabilities at the feeder level providing power to meet the needs of the entire installation. In addition, the project will install unit transformers, switchgear, and microgrid control systems, along with fire protection and detection systems. The microgrid control system includes transfer switches, automated circuit breakers, interface and protection relays, generation transformer, microgrid controller, and fiber optic communication connections. Supporting facilities include water, sewer, and natural gas utility connections, site preparation, security lighting, paving, walkways, curbs, storm drainage, site clearing and grading, fencing, landscaping, and signage.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: NA

PROJECT:
This project constructs a microgrid, to include a NG generation plant and interconnection with the installation's natural gas supply.

REQUIREMENT:
The September 2019 Project Feasibility Assessment (PFA) conducted by the National Renewable Energy Laboratory (NREL) recommended Hunter Army Airfield (HAAF) install an 8 MW microgrid to provide redundant backup to support

1. COMPONENT Defense Wide - Army	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Fort Stewart-Hunter Army Airfield Fort Stewart, Georgia	Power Generation and Microgrid

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81117	98162	25,400

one hundred percent of mission critical facilities and cover nominal base load. The benefits of constructing a second electric supply point to HAAF include supplying HAAF with generation for 100% of mission critical facilities, including 3MW of critical loads. Additionally, deploying a microgrid system will substantially mitigate impacts to critical missions during power outages by maintaining power, and will also increase energy resilience and surety. Compared to traditional back-up power, the microgrid system will provide better operational reliability, maintenance sustainability, safety, and intelligent management to more loads utilizing both new and existing systems. This project enhances mission assurance by providing standby power to support energy delivery to mission critical facilities during power outage events.

This project provides energy resilience in times of grid outage to allow the critical missions to continue operation at HAAF. The project will support mission critical activities by providing emergency power for the following facilities: Headquarters for 3rd Combat Aviation Brigade (3CAB), Bulk Fuel (JP-8) Storage and fueling, DAAG/Ready Building, Ammo Supply Points, and shelter locations for families. Sectionalization at the circuit level to serve only critical loads would be cost prohibitive, therefore the project is designed to power the entire installation.

CURRENT SITUATION:
HAAF, a sub-installation of Fort Stewart is the headquarters of the 3CAB. Additionally, HAAF supports Fort Stewart as the staging area for mass deployment. During a mass deployment from Fort Stewart, Armored Brigade Combat Teams (ABCTs) from the 3rd Infantry, 1st and 2nd Armored Brigade, pass through HAAF, including its soldier processing facilities (e.g. DAAG/Ready Building).

The installation mission critical load is approximately 3MW. Mission critical facilities and operations are currently served with numerous building attached back-up diesel generators. Generators are currently installed at the following configurations: 300, 250, 150, 100, 175, two 60, and 80 kW. In an emergency situation, if the commercial electric power grid is down, there are insufficient staff to purchase, arrange transport, fuel and maintain the many back-up generators. The fuel storage supply on the installation is limited for existing generators, and it is incapable of sustained emergency operations for any extended period of time. Between January 1, 2017 to January 1, 2020, HAAF has suffered several distribution level outages, totaling 81 hours. Currently Canoochee EMC owns the electrical distribution system. The installation and CEMC are hardening feeder level distribution under the Utilities Privatization contract to address on-post outages. Utility connections are required for electric distribution, electric generation, natural gas, and water system(s). The Army intends to have CEMC make and own the necessary connections up to the facility service disconnect or other defined point of demarcation and will examine future ownership of the completed ERCIP project.

IMPACT IF NOT PROVIDED:
Fort Stewart – HAAF will continue to be susceptible to electrical grid outages which disrupt operation of critical mission facilities. Readiness and deployment capabilities will be adversely impacted by a commercial grid outage and will drastically increase the risk of mission delays and failures. Even assuming no unforeseen maintenance or operational issues occur with facility-level backup generators, in the event of an outage critical mission functions will be impacted within days.

1. COMPONENT Defense Wide - Army	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Fort Stewart-Hunter Army Airfield Fort Stewart, Georgia	Power Generation and Microgrid

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81117	98162	25,400

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: ENERGY RESILIENCE

c. Rationale IAW 10 USC 2914:
This project will provide a microgrid control system that will enhance the protection and resilience of critical assets and capabilities by providing smart switching capabilities at the feeder level, providing critical power to meet the needs of the Hunter AAF. This project will support 100% of critical missions and critical facilities at Hunter AAF, including the 3CAB BDE HQ, aircraft and vehicle fueling points, the Ammo Supply Point, and critical infrastructure such as water wells and the wastewater treatment plant.

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703-843-0159

1. COMPONENT Defense Wide - Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Naval Submarine Base Kings Bay Kings Bay, Georgia	SCADA Modernization

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	89051	P694	11,200

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**9,230**
Overhead Electrical Distribution Lines (CC81231)	LF	34,000	134.64	(4,580)
Industrial Control Systems (ICS)/SCADA Infrastructure (CC89051)	SF	42,000	77.19	(3,240)
ICS Infrastructure Network (CC89050)	MI	7	191,611.45	(1,340)
Electric Systems Maintenance Shops (CC21910)	SF	1,000	70.59	(70)
SUPPORTING FACILITIES				**0**
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**9,230**
CONTINGENCY (10%)				923
TOTAL CONTRACT COST				**10,153**
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				579
DESIGN/BUILD – DESIGN COST (4%)				443
TOTAL REQUEST				**11,175**
TOTAL REQUEST (ROUNDED)				**11,200**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
Upgrades the passive and active infrastructure for the Supervisory Control and Data System (SCADA) network with the latest monitoring and control equipment and increases interconnectivity by repairing existing connection points. Control Center spaces in Building 2025 shall be upgraded to accommodate the building's HVAC systems to meet the demands of SCADA equipment. The project reconfigures and repairs Sub-Base Kings Bay existing Integrated Digital Network (IDN) infrastructure. The project will repair passive and active infrastructure for the SCADA network. The project upgrades main distribution nodes (MDN), intermediate distribution nodes (IDN) and edge network nodes (EDN) located throughout Kings Bay Naval Submarine Base. Electrical feeder distribution relays will be upgraded from outdated electromechanical devices to solid-state processor controlled models needed for adequate distribution system reliability and resiliency. The relay system will be integrated into the SCADA network for viewing and historical trending. Relays will be programmed and updated per latest electrical coordination study. The SCADA system will utilize the latest software as its interface, replacing outdated software. It will provide control, alarming, and data logging functionality. Existing client software will be upgraded to the latest version and will be installed on new PC workstations. The architecturally reconfigured room shall include ergonomically designed workstations with sufficient workspace for multiple monitor viewing by up to three seated operators. All telecommunication hardware and software for the Control Center shall be supplied including SCADA view nodes, color printers.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
Modernize SCADA and electrical distribution protection for an accredited industrial controls network.

REQUIREMENT:
This project supports energy resilience by providing more reliable communications and control from any one point in the system to any other point. It replaces obsolete equipment and reduce latency throughout the Industrial Controls Network and creates centralized server architecture to allow management of any part of the SCADA system from any workstation to apply system updates and security patches. This project also improves electrical distribution reliability and redundancy through

1. COMPONENT Defense Wide - Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Naval Submarine Base Kings Bay Kings Bay, Georgia	SCADA Modernization

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	89051	P694	11,200

installation of programmable solid-state protective relays. It repairs SCADA central control room HVAC to meet NAVFAC standards, integrates and updates SCADA software throughout the ICS network, and integrates Sub-4 Bldg. 5199A into existing SCADA architecture. This project connects, terminates, and tests 96-strand single mode fiber through several buildings, and updates the lift station radio infrastructure to reduce outages from annual vegetation cycles.

CURRENT SITUATION:
The existing SCADA system was last modified in 1997 to include new passive infrastructure, pathways, and SCADA monitoring, processing, and network devices. The existing infrastructure is using a combination of twisted pair, multimode, serial/pinned, RF, and wireless with various interface protocols. The existing infrastructure includes limited single mode fiber optic cable. Remote utility service plants operate unmanned and are monitored and controlled locally from the Utilities control center. The buried multi-mode fiber is severely degraded and causes data loss and throughput reductions thereby reducing utility service reliability. The SCADA Equipment and software is not in compliance with DoD cyber-security accreditation requirements. Electrical distribution circuits are protected using electromechanical relays that are no longer manufactured. These devices contain moving, wearing components that can no longer be sourced economically. The relay settings have been reviewed and require revision due to changes in base facility loadings.

IMPACT IF NOT PROVIDED:
The existing SCADA system will continue to degrade and cause loss of data and utility reliability. If the electromechanical relays degrade or break, those parts will not be able to be replaced as they are no longer manufactured. The SCADA Equipment and software will also not be in compliance with DoD cyber-security accreditation requirements, and will be vulnerable to cyber-attacks.

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: ENERGY RESILIENCE

c. Rationale IAW 10 USC 2914:
The project aligns energy security gaps with the requirements of critical missions and improves the component's ability to reduce and recover from distribution failures. This project supports energy resilience by providing more reliable communications and systems control. The project updates electrical feeders and integrates SCADA network software ICS infrastructure.

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703-843-0159

1. COMPONENT Defense Wide – Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Joint Base Pearl Harbor-Hickam Wahiawa, Hawaii	Primary Electrical Distribution

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81320	P8005	25,000

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**22,560**
Substation Replacement (CC81320)	KV	12.47	1,224,538	(15,270)
Primary Underground Electric Distribution Lines (CC81232)	LF	22,510	324.06	(7,290)
SUPPORTING FACILITIES				**0**
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**22,560**
CONTINGENCY (5%)				1,128
TOTAL CONTRACT COST				**23,688**
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				1,350
TOTAL REQUEST				**25,038**
TOTAL REQUEST (ROUNDED)				**25,000**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
This project replaces existing primary 4.16KV feeders (circuits F1 and F3) with 12.47KV feeders located in the Naval Computer and Telecommunications Area Master Station (NCTAMS) Pacific in Wahiawa, Joint Base Pearl Harbor Hickam (JBPHH). Work will include replacing existing deteriorated underground conductors, underground conduits and electrical substations. Where possible, the existing underground conduits will be replaced between the existing electrical manholes. All 4.16KV conductors within the scope of this project will be disconnected and removed. The new 12.47KV circuits will be connected to the existing 12.47KV switchgear in Switching Station S262. The project will also replace existing old and deteriorated pad mounted 4.16KV primary switches and transformers with 12.47KV pad mounted primary switches and transformers in NEMA 3R stainless steel enclosures. Secondary switchboards will be replaced as needed. Replacement electrical equipment will be installed adjacent to existing electrical equipment where possible to minimize down time. The existing electrical equipment will be demolished after cut-over. The project will transfer existing S8 and B446 electrical load to circuits F5 and F6. B401 and B432 electrical load will be transferred to circuit F5 since they are single circuit fed. This project also proposes to transfer 12.47KV to 4.16KV step-down transformer at existing Switch NCT-SW1. This will supply power to the existing loop-fed housing transformers. The building's two 4.16KV 1500KVA transformers and two primary breakers will be replaced with new 12.47KV 1500KVA transformers and primary breakers. The two 12.47KV circuits (P10 and P11) will be extended from electrical manhole NC22 to serve the new equipment. The 4.16KV cables and electrical equipment will be disconnected and removed.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
The project replaces the existing electrical distribution system that services facilities throughout NCTAMS Pacific, Wahiawa, JBPHH.

REQUIREMENT:
This project increases resiliency by providing replacement of deteriorated and obsolete circuits and associated infrastructure and provides additional redundancy and reliability for the installation. Naval Facilities Engineering Command (NAVFAC)

1. COMPONENT Defense Wide – Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Joint Base Pearl Harbor-Hickam Wahiawa, Hawaii	Primary Electrical Distribution

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81320	P8005	25,000

Hawaii Utilities is required to provide adequate, reliable and uninterrupted electrical power throughout the installation. Existing Wahiawa Annex primary 4.16kV feeders are old, deteriorated, and need replacement. Reliability, resilience, and power security will be provided for C5ISR OPS – Command & Control and MMDS C5IRS OPS - Network Operations/Telecommunications critical missions and multiple facilities located at NCTAMS.

CURRENT SITUATION:

The existing 4.16KV primary feeders, F1 and F3, provide electrical power to various facilities at NCTAMS Pacific Wahiawa, JBPHH. The existing 4.16KV electrical system is old and deteriorated. Bldg 409's electrical service equipment is also old and severely deteriorated. The older 4.16 kV South distribution circuit is a mismatch to the newer North 12 kV circuit so neither circuit can back up the other. In addition, the existing 4.16kV deteriorated distribution system had 39 separate outages over the past 10 years and the total duration exceeded 166 hours. The majority, 50%, occurred over the past 3 years, some lasting up to 16 hours.

IMPACT IF NOT PROVIDED:

The Navy will be unable to support the mission of NCTAMS Pacific, Wahiawa, JBPHH. The normal service life for this equipment has been exceeded and system failures have already been experienced. The forecast is that outages and duration will continue to increase the equipment goes without any replacements or updates.

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: ENERGY RESILIENCE

c. Rationale IAW 10 USC 2914:

This project increases resiliency by providing replacement of deteriorated and obsolete circuits and associated infrastructure and provides additional redundancy and reliability for the installation. The current 4.16kV feeders are undersized and inconsistent with the newer 12.47kV grid, eliminating JBPHH's ability to connect to the older grid for added resiliency. Reliability, resilience, and power security will be provided for C5ISR OPS – Command & Control and MMDS C5IRS OPS - Network Operations/Telecommunications critical missions and multiple facilities located at NCTAMS, Wahiawa Annex, Joint Base Pearl Harbor Hickam.

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703-843-0159

1. COMPONENT Defense Wide - Army	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Fort Riley Fort Riley, Kansas	Power Generation and Microgrid

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81117	98161	25,780

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**21,430**
Primary Power Generation (CC81117)	KW	7,500	1,830	(13,730)
Microgrid Controls, Switchgear, Switches, and Breakers	LS	--	--	(3,890)
Building Information Systems, Integration, SCADA, and Commissioning	LS	--	--	(1,850)
Interconnection, Engineering Studies, and Load Bank Testing	LS	--	--	(660)
Cybersecurity	LS	--	--	(300)
Gas Pipeline	LF	100	750	(80)
Interconnection Agreement	LS	--	--	(110)
Environmental and Air Permitting	LS	--	--	(810)
SUPPORTING FACILITIES				**740**
Site Improvements	LS	--	--	(660)
Information Systems	LS	--	--	(50)
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**22,170**
CONTINGENCY (10%)				2,217
TOTAL CONTRACT COST				**24,387**
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				1,390
TOTAL REQUEST				**25,777**
TOTAL REQUEST (ROUNDED)				**25,780**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
Construct a microgrid with controls and automatic switching for isolating and powering up to 35% of the installation's critical load. The microgrid includes the installation of multiple natural gas (NG) centralized generators located at substation #7 to perform peak shaving which will produce savings that can be reinvested to increase the resilience posture of the installation. The microgrid will power up to 46 critical facilities located on feeders connected to substations #1, 2, and 7 with an estimated critical load of 5.2MW. The project involves installing a 6-inch natural gas line to service the new generation plant. The proposed site of the NG generator is within 100 feet of an existing natural gas line. Each generator will have a unit step-up transformer to match the distribution voltage. 12.47 kV circuit breakers and conductors will be installed to isolate the generators from the distribution system. The microgrid control system will include, but not limited to, the following: transfer switches, interface relays, microgrid controllers, automatic switches for isolating critical loads, and fiber optic communication connections. Connect/Install and integrate microgrid control system with SCADA system to allow remote read, write and control of the management, communication, and operation of protective devices.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
This project will construct a microgrid connected to the electrical distribution system with modular natural gas generation.

REQUIREMENT:

1. COMPONENT Defense Wide - Army	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Fort Riley Fort Riley, Kansas	Power Generation and Microgrid

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81117	98161	25,780

Fort Riley supports training, assembly, and deployment missions associated with the FORSCOM units located on the installation, particularly, the 1st Infantry Division (1ID). The 1ID is one of only six heavy divisions in the Army designed to deter conflict, but if deterrence fails, to rapidly deploy, fight and win our nation's wars. Currently, the division must rely on its portable warfighting equipment and power generation capability to maintain installation operations should there be a prolonged loss of power.

Once operational, the microgrid will provide Fort Riley the ability to island up to 35% of its critical load from the external power grid in times of a grid outage and continue those mission critical operations for a minimum of 14 days. This microgrid project will mitigate that vulnerability and greatly improve the installation's ability to support the Army's mission. The installation's mission critical load is approximately 15MW with an annual peak load of 44MW. This project will provide up to 7.5MW on selected critical circuits. The project will also support the installation in capturing energy savings so that the installation can invest in additional resilience projects. Developing a microgrid at Fort Riley will greatly improve the energy security and resilience of the installation and will significantly increase the ability to ensure the continuity of operations and mission essential functions of Fort Riley as a Power Projection Platform (PPP), Mobilization Force Generation Installation (MFGI) Contingency Inactive, and Regional Collective Training Capability (RCTC) installation. The microgrid project will support all the critical missions connected to Substations 1, 2 and 7 which include the 1ID division and garrison command. The generation is sized (7.5MW) to optimize the savings from peak shaving.

CURRENT SITUATION:

The installation is not currently compliant with near-term energy resilience requirements. There is an inadequate number of backup generators and onsite fuel storage to sustain critical facilities across the installation beyond 14 days. Of the 129 critical facilities, 57 have no backup power. There are 60 generators (35 NG, 22 diesel, and 3 propane) serving one or more critical facilities. The average run time on day tanks located at the diesel back-up generators is three days. To run the diesel generators for 14 days, 35,000 gallons of diesel would be needed for existing generators. Bulk diesel storage capacity on Fort Riley is 38,000 gallons. This 38,000 gallon fuel capacity is meant to provide fuel for both generators and vehicles, so this limits the ability to dedicate 35,000 gallons solely to generators. In an emergency situation, with the commercial electric power grid down, the installation's current power generation infrastructure would not be sufficient to support its energy resilience needs in order to carry out its critical missions. Fort Riley experiences electrical outages regularly. Data from the utility privatization (UP) provider, City, Light & Power (CLP), indicates that three to five outages per month is typical for the past year. All of these outages occurred on-post and they were not a result of loss of the outside utility service. These outages are typically localized and only impacting a few facilities. The installation and CLP are hardening the distribution grid under the UP contract to address on-post outages. Utility connections are required to a privatized electric distribution, electric generation, natural gas, water, wastewater, central heating and/or cooling system(s). The Army intends to have CLP make and own the necessary connections up to the facility service disconnect or other defined point of demarcation and will examine future ownership of the completed ERCIP project.

IMPACT IF NOT PROVIDED:

If the critical missions of training, assembly, and deployment were to fail at Fort Riley, the Army's ability to maintain and rapidly deploy combat ready forces would be negatively impacted. The loss of one of the Army's six heavy divisions would jeopardize the ability of the Army to effectively respond to an external threat. A grid outage would impede the rapid deployment of combat ready forces. Training would halt, certifications would be suspended, and deployment would be impeded. It is estimated that a prolonged grid outage would cost $1.2M per day in lost productivity and delays in training and deployment. Divisional units cannot prepare and pack-out their warfighting equipment if it is being used to maintain the installation's operational capability.

1. COMPONENT Defense Wide - Army	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Fort Riley Fort Riley, Kansas	Power Generation and Microgrid

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81117	98161	25,780

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: ENERGY RESILIENCE

c. Rationale IAW 10 USC 2914:

This project provides emergency power and will enhance the protection and resilience of mission critical facilities and capabilities located on feeders connected to three (3) electrical substations. Over half of the facilities do not currently have emergency generators. Facilities served include First Infantry Division Headquarters, Four (4) Brigade Headquarters Buildings, and five (5) training and training support centers. Project will allow these facilities to operate under emergency power in the event of a power outage caused by local events or grid serving the installation.

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703-843-0159

1. COMPONENT Defense Wide – NSA	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Fort George G. Meade Fort Meade, Maryland	Reclaimed Water Infrastructure Expansion

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	84510	40409	23,310

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**18,320**
Water Distribution Line (CC84510)	LF	21,635	276.40	(5,980)
Equipment	LS	--	--	(3,700)
HVAC	LS	--	--	(4,120)
Chiller Coating	LS	--	--	(4,200)
Operation & Maintenance Supplemental Info (OMSI)	LS	--	--	(90)
Special Costs	LS	--	--	(230)
SUPPORTING FACILITIES				**1,610**
Site Work	LS	--	--	(1,320)
Traffic Management	LS	--	--	(290)
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**19,930**
CONTINGENCY (10%)				1,993
TOTAL CONTRACT COST				**21,923**
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)				1,250
DESIGN DURING CONSTRUCTION (DDC)				140
TOTAL REQUEST				**23,313**
TOTAL REQUEST (ROUNDED)				**23,310**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
This project will construct reclaimed water system expansion for cooling tower makeup water for the facilities on West Campus and Central Campus at National Security Agency – Washington (NSAW). The reclaimed water will provide a redundant utility for mission-critical operations. Using reclaimed water in the cooling towers will also reduce water costs and drawdown from the capacity-constrained wells that serve Fort George G. Meade (Ft. Meade) and NSAW. New reclaimed water distribution will be extended from the existing system to additional buildings. The additional mains will be installed using a methodology to minimize campus impact. Inside the mechanical rooms of the buildings, the reclaimed water system will be tied into the cooling tower makeup water system. The system will provide the appropriate levels of pressure and ensure no cross-contamination between the potable and reclaimed water systems. Chemical treatment systems and chiller tubes will be modified to ensure water quality causes no degradation of downstream equipment. The system will be tied into the existing campus Energy Management Control System (EMCS) to allow for the automated control of water source for cooling tower makeup between potable water and reclaimed water. Special costs associated with construction in a secure perimeter are included for construction escorts. Supporting facilities include traffic management for road crossings, piping along roadways, and parking lots. The supporting facilities cost also includes site work for utility location and testing pits, road crossings, parking lots, staging/laydown areas, and the restoration of staging/lay down areas.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
Construct reclaimed water distribution piping and building service connections at NSAW.

1. COMPONENT Defense Wide – NSA	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Fort George G. Meade Fort Meade, Maryland	Reclaimed Water Infrastructure Expansion

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	84510	40409	23,310

REQUIREMENT:
This project was developed from the Energy and Sustainability Plan (ESP) for the NSAW Campus. This project will achieve identified sustainability and resiliency goals through efficiency and sustainability improvements for the campus including a 36% reduction of campus water use intensity from a 2007 baseline, while maintaining or enhancing the resiliency of the existing infrastructure and facilities.

CURRENT SITUATION:
Potable water consumption at NSAW comes from wells and a water treatment plant located on Ft Meade. The campus averages an annual potable water consumption of over 250,000,000 gallons and approximately 50 percent of that usage is from cooling tower makeup water for the buildings on West Campus and Central Campus. The potable water system is the single source of water that is required for the cooling towers which are part of the process to provide the essential cooling required for mission operations.
The cooling systems at West Campus and Central Campus facilities, including critical facilities, rely upon water to provide critical cooling required for continuing their missions. The current arrangement provides a single source of water, meaning the system currently doesn't have the appropriate redundancy to ensure uninterrupted operations. Recently reclaimed water was brought on to the campus from the Howard County Reclaimed Water Pump Station located just west of the NSAW campus. Reclaimed water is successfully being used in the cooling towers serving new facilities located on East Campus. Cooling towers do not require the higher quality of water so they can use other water sources such as reclaimed water which has a much lower unit cost.

IMPACT IF NOT PROVIDED:
Building cooling relies on cooling towers which require a constant source of makeup water. At the campus facilities, potable water is the only source of makeup water. If the potable water system fails or is shut down, cooling can no longer be provided and could force the shutdown of mission operations to prevent overheating. The current use of potable water represents a high cost of operation alternative. Since potable water is also for human consumption, the water must be highly treated which increases the unit cost of the water.

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: ENERGY RESILIENCE

c. Rationale IAW 10 USC 2914:

The NSA will apply a campus wide solution to provide a fully independent source of make-up water to mission-critical facilities and decrease its potable water consumption on the local aquifer through the installation of the Reclaimed Water Phase II system. This infrastructure will interconnect to the existing East Campus reclaimed water infrastructure network to enhance resiliency by providing reclaimed makeup water for mechanical cooling across its West and Central campuses, shifting existing potable water loads to a non-potable water source, lessening the demand on the aquifer. This project is essential to build mechanical cooling redundancy and energy and water resiliency as required to ensure the continued operations of critical Signals Intelligence (SIGINT) and Cybersecurity missions and priorities supported by the National Defense Strategy.

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Office of the Deputy Assistant Secretary of Defense (Environment & Energy Resilience)
703-843-0159

1. COMPONENT Defense Wide - Army	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Fort Hood, Texas	Power Generation and Microgrid

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81122	99143	31,500

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**24,570**
Primary Power Generation, PV (CC81122)	KW	1,500	6,589.76	(9,890)
Primary Power Generation (CC81117)	KW	3,000	1,917.74	(5,760)
Battery Energy Storage System	KW	1,000	5,050	(5,050)
Microgrid Controls, Switchgear, Switches, and Breakers	LS	--	--	(2,030)
Building Information Systems, Integration, and Commissioning	LS	--	--	(550)
Transformers	LS	--	--	(430)
Environmental and Air Permitting	LS	--	--	(610)
Cybersecurity	LS	--	--	(250)
SUPPORTING FACILITIES				**2,250**
Electric Service	LS	--	--	(1,450)
Water, Sewer, and Gas	LS	--	--	(240)
Site Improvements	LS	--	--	(360)
Demolition	LS	--	--	(200)
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				250
SUBTOTAL				**27,070**
CONTINGENCY (10%)				2,707
TOTAL CONTRACT COST				**29,777**
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				1,697
TOTAL REQUEST				**31,474**
TOTAL REQUEST (ROUNDED)				**31,500**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

This project provides electricity to a cluster of multiple critical loads (2.12MW) and multiple non-critical loads (0.79MW) to serve a total of 2.9MW of load. The microgrid system will include 3MW of natural gas fueled reciprocating internal combustion engines (RICE), 1.5MW solar photovoltaic (PV) parking canopy array, 1MW battery energy storage system (BESS), automated switches required to isolate, island and blackstart the system, and microgrid controls. These pieces of equipment will connect to the 12.47kV distribution system. In non-emergency situations, the RICE will be disconnected and the solar will offset load on feeder 2. The isolating switches will isolate a portion of the grid on feeder 2 and 14. This will power multiple critical facilities as well as non-critical loads in the isolation. Once the system is engaged, these loads will continue to receive power from the installation distribution system as usual.

The microgrid will be installed to operate as a stand-alone autonomous electrical power system with capability to provide data link connection to the installation monitoring and control system. The RICE will meet the basic requirement for dispatchable generation at any time as well as establish the voltage and frequency reference for the solar array. The solar array will assist the generators in meeting the power requirements during daylight hours, provide the installation with power daily, and shade vehicles from the sun. This solar generation, totaling 1.5MW AC, will be constructed on canopies above the parking lots behind Building 1001.

1. COMPONENT Defense Wide - Army	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Fort Hood, Texas	Power Generation and Microgrid

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81122	99143	31,500

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
Construct photovoltaic, natural gas, and battery energy power generation with microgrid for Phantom Warrior Central.

REQUIREMENT:
Fort Hood is a mobilization and demobilization station for Army Reserve and National Guard units, a Power Projection Platform (PPP) and a primary active mobilization force generation installation (MFGI). It is also the Army's premier Regional Collective Training Center, and the only post in the United States capable of stationing and training two armored divisions. Home to four brigade combat teams, Fort Hood has the ability to maintain up to 50,000 soldiers and has immediate access to 197,000 acres of maneuver training areas. Fort Hood has an average annual peak demand of 94.3 MW (2019 IEWP), and the mission critical load is 15.3 MW (2018 SRA). This project will support 2.12 MW of critical load or 14% of the total installation critical load.

The microgrid will provide resiliency for multiple critical missions at Fort Hood for a minimum of 14 days through backup power generators, battery storage and new power generation. The microgrid will enable the continuity of mission command for critical commanders and staff in III Corps Headquarters (HQ), Garrison HQ, Network Enterprise Center (NEC), Directorate of Plans, Training, Mobilization and Security (DPTMS), Directorate of Emergency Services (DES), and the Blood Donor Center. Furthermore, the installation intends to use the solar to offset electric consumption/load, which will lower the Installation's energy costs from the Renewable Energy Supply Agreement (RESA) and the Transmission and Distribution charges. The installation will use the BESS to shift electric consumption/load from high priced energy to low priced energy purchased under the RESA. The BESS will provide instantaneous responses to spikes or dips in the load, assist in blackstarting the system, and reduce demand. The distribution level control system will be capable of islanding for continuous power to support mission critical facilities.

CURRENT SITUATION:
Fort Hood is unable to meet its resiliency requirement to sustain all of its mission critical facilities for 14 days. In the event of a short-term grid outage, the critical facilities in Phantom Warrior Central are equipped with numerous small back-up diesel generators. Fuel supplies for these generators provide only a few days of continuous operation without refueling, assuming average loading per the FY19 Security and Resilience Assessment. The bulk diesel stores onsite provide limited capability.

Since the electrical and natural gas systems on Fort Hood were privatized under 10 U.S Code § 2688 in 2017, utility connections to the privatized electrical and natural gas systems are required. The Army intends to have the respective Utilities Privatization System Owner (UPSO) perform all necessary utility connections up to the facility service disconnect or other defined point of demarcation.

IMPACT IF NOT PROVIDED:
The III Corps HQ ability to provide command and control of all assigned units at five installations would be at significant risk without this project. In addition, Fort Hood will be at significant risk for not being able to effectively perform other mission critical functions including those of the NEC HQ switch and Century Link, medical operations at the Robertson Blood Bank, various operations of the DPTMS, operations of Fort Hood HQ, and multiple DES facilities necessary for the recovery and restoration of Fort Hood's infrastructure. There are existing deficiencies in generator coverage and the current cost of contingency power, to include the cost and resources needed to refuel diesel systems, without this project. The installation would be at risk from electrical interruptions without improved, longer-term energy resilience.

1. COMPONENT Defense Wide - Army	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Fort Hood, Texas	Power Generation and Microgrid

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81122	99143	31,500

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: Energy Resilience

c. Rationale IAW 10 USC 2912:

The proposed microgrid will power multiple mission critical facilities with an estimated critical load of 2.12 MW at the Phantom Warrior Central campus. The project reduces risk by providing electricity to critical Logistics Readiness Center loads. PV and battery storage reduce fuel supply risk.

Office of the Deputy Assistant Secretary of Defense (Environment & Energy Resilience)
703-843-0159

1. COMPONENT Defense Wide - USAR	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
U.S. Army Reserve Conroe, Texas	Power Generation and Microgrid

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81122	93347	9,600

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**8,250**
Primary Power Generation, PV (CC81122)	KW	750	4,265	(3,200)
Backup Power Generation (CC81117)	KW	680	794	(540)
Battery Energy Storage System and Inverter	KW	750	1,066	(800)
Microgrid Controls and Distribution Switch	LS	--	--	(2,320)
Building Information Systems, Integration, and Commissioning	LS	--	--	(130)
Interconnection Agreement	LS	--	--	(160)
Cybersecurity	LS	--	--	(260)
SUPPORTING FACILITIES				**0**
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**8,250**
CONTINGENCY (10%)				825
TOTAL CONTRACT COST				**9,075**
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				517
TOTAL REQUEST				**9,592**
TOTAL REQUEST (ROUNDED)				**9,600**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
Construct a carport mounted PV solar array with solar panels, mounts, inverters, transformers, controls and communication, AC/DC wiring with conduit, low voltage switchgear, and security measures. The PV system will be designed to utilize PV power on-site prior to feeding into the local grid. Ensure net metering and interconnection agreements are approved by the utility. Buildings at this site are Organizational Maintenance Shop (OMS), storage, hangers, administration, Global Simulation Capability (GSC), Canopy. Also, construct a microgrid system that will have full islanding capability. The microgrid system will incorporate a new carport mounted photovoltaic (PV) solar array, battery energy storage system (BESS), and natural gas backup generator systems, with load-balancing controllers to reduce fuel use. The microgrid system will include master microgrid controller, and an automated distribution switch to disconnect the Army Reserve Center from local electrical utility grid during grid outages.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
This project will construct PV power generation and a microgrid at the U.S. Army Reserve Center, Conroe, TX.

REQUIREMENT:

The U.S. Army Reserve Center (ARC) is a critical facility and supports multiple facilities with approximately 110,000 square feet of mission critical operations for the 63rd Readiness Division. This project will directly and positively impact mission assurance of the 63rd Readiness Division by providing about 96% of its average annual energy consumption with on-site renewable energy generation, thereby ensuring continuity of operations and mission command during planning, alert,

1. COMPONENT Defense Wide - USAR	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
U.S. Army Reserve Conroe, Texas	Power Generation and Microgrid

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81122	93347	9,600

assembly, preparation and deployments of Soldiers in support of federal or state missions during emergencies. A BESS will provide electrical power resilience/quality in addition to the PV.

CURRENT SITUATION:
The Reserve Center at Conroe supports the Army Reserve UH-60 Black Hawk medium lift transport aviation mission. The facility includes a large aviation pad, OMS, canopy, storage building, hangers and the associated supporting facilities to provide all required functions for typical ongoing aviation operations, training, and administration/drill hall. Operational elements that support flight operations – including flight administration and dispatch, flight planning, flight safety, mission command, flight crew supply, communications, maintenance, fire suppression, ground operations, and airframe wash down – are dispersed throughout the buildings that comprise the Conroe facility. This operational dispersion makes all buildings on the facility, except storage, essential for typical operations. In addition to normal training activities, the site served a support role during Hurricane Harvey and is anticipated to be used as a Federal Emergency Management Agency (FEMA) operations center for future Defense Support of Civil Authorities (DSCA) missions to include sheltering of civilians in a disaster. Future master plans include additional flight line operations through the purchase of additional land adjacent to the aircraft parking area. All buildings on the Conroe site are deemed critical to support mission needs. All functions at Conroe must be operational for emergencies and outages.

Current average annual demand at the one meter at Conroe ARC is 1084 MWh consumed by the Training Center. Peak demand at the Training Center is 276 kW. The meter incurs demand charges. The Conroe ARC currently does not have on-site energy generation capability; it is fully reliant on the local utility grid. This reliance presents an energy security vulnerability to Conroe ARC's critical missions

IMPACT IF NOT PROVIDED:
Reliance on the local utility power grid will remain a significant vulnerability to critical ARC missions. Additionally, energy costs and consumption will remain unchanged without on-site renewable energy generation.

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: ENERGY RESILIENCE

c. Rationale IAW 10 USC 2914:

Conroe ARC is a critical facility based on the critical assets supported by the facility. OCAR/ARIMD vulnerability analysis lists this facility as critical. Conroe ARC is part of the 63rd Readiness Division and supports a total of approximately six facilities with approximately 110,000 square feet of mission critical operations. This project will directly and positively impact mission assurance of the 63rd Readiness Division by providing about 96% of its average annual energy consumption with on-site renewable energy generation, thereby ensuring continuity of operations and mission command during planning, alert, assembly, preparation, and deployments of Soldiers in support of federal or state missions during emergencies.

Office of the Deputy Assistant Secretary of Defense (Environment & Energy Resilience)
703-843-0159

1. COMPONENT Defense Wide - Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAVSUPPORT Hampton Roads Norfolk, Virginia	Primary Distribution Substation

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81320	P1335	19,000

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**11,650**
Unit Substations (CC81320)	KV	60	176,667	(10,600)
Cybersecurity Features	LS	--	--	(100)
Special Costs	LS	--	--	(600)
Operation & Maintenance Supplemental Information (OMSI)	LS	--	--	(350)
SUPPORTING FACILITIES				**4,020**
Site Preparations	LS	--	--	(310)
Special Foundation Features	LS	--	--	(450)
Paving and Site Improvements	LS	--	--	(1,090)
Anti-Terrorism/Force Protection	LS	--	--	(60)
Electrical Utilities	LS	--	--	(1,890)
Mechanical Utilities	LS	--	--	(220)
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**15,670**
CONTINGENCY (10%)				1,567
TOTAL CONTRACT COST				**17,237**
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				983
DESIGN/BUILD – DESIGN COST (4%)				689
TOTAL REQUEST				**18,909**
TOTAL REQUEST (ROUNDED)				**19,000**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
Replace Substation with Transformers and Switchgear at NH-95. The unit replacement requires the existing NH-95 site fence line to be relocated and adjacent road to be realigned. Remove the existing fence, modify the existing road, and remove parking. Provide temporary substations during construction. Provide new road, curbing gutters, security fence and gates, modify existing parking lot, provide new parking to offset the loss at an adjacent location. Includes all signage, temporary security requirements and other miscellaneous items. Demolish existing units when new units are complete. Facility-related control systems include cybersecurity features in accordance with current DoD criteria. This project will repair/replace leaking transformers, bushings, switchgear, primary and secondary duct banks with required cabling and structure. During construction, temporary support for the individual systems are required. Systems must remain operational when components are offline for repairs. The temporary support may require evaluation to determine requirements for uninterrupted service.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
This project replaces a substation, four transformers, and switchgear to create redundant unit pairs capable of carrying full electrical loads.

REQUIREMENT:
The Maritime Operations Center (MOC) provides critical service and command operations to the Atlantic Fleet working operationally out of Building NH-95. These substations are required to provide redundancy backup electrical service to critical loads for the MOC and other operational support of the missions in NH-95.

1. COMPONENT Defense Wide - Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAVSUPPORT Hampton Roads Norfolk, Virginia	Primary Distribution Substation

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81320	P1335	19,000

CURRENT SITUATION:

These substations provide electrical service for the MOC. The substations provide various levels of service including redundancy and capacity loading. The substations are old (1970-1975) and past their expected life (estimated +/- 35 years). Replacement parts are proving to be difficult, if not impossible to find, and repair time is increasing because of equipment wear and age fatigue. The wear on the equipment places a danger to all maintenance personnel because of the inherent arc flash hazards associated with equipment that no longer performs as specified by the manufacturer. Of note in 2019/2020, Units K and then G had unanticipated failures and this gives cause and reason that this may occur to other old units without warning or detection.

IMPACT IF NOT PROVIDED:

Failure creates immediate loss of this provisional service and puts at risk those loads serviced by the equipment. Loss can overload redundancy in the old equipment thus fostering further permanent damage or total failure of equipment in the electrical distribution system. Most importantly, equipment used to service loads in the MOC can fail and not be replaced. Immediate replacement of the equipment is not possible because of the equipment arrangement, and lag in construction (non-standard items- usually custom built) to include the number of service feeders. Maintenance of old faltering equipment requires full time technician's observance of operation of the NH-95 stand-by generators to avoid failure.

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: Energy Resilience

c. Rationale IAW 10 USC 2914:

The MOC provides critical service and command operations to the Atlantic Fleet working operationally out of NH-95. These substations are required to provide redundancy backup electrical service to critical loads for the MOC and other operational support of the missions in NH-95. This will create a "true" redundancy of this project's unit pairs so that if one unit goes down or is brought down for maintenance the other unit in the pair carries the full load.

Office of the Deputy Assistant Secretary of Defense (Environment & Energy Resilience)
703-843-0159

1. COMPONENT Defense Wide – Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAVSUPPACT Hampton Roads Norfolk, Virginia	Backup Power Generation

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81330	P1401	3,400

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**2,620**
Backup Power Generation and Paralleling Controls (CC81330)	KV	14	175,000	(2,450)
Joint Use Intelligence Center Renovation (CC14380)	SF	84,994	1.01	(90)
Information Systems	LS	--	--	(20)
Special Costs	LS	--	--	(50)
Operation & Maintenance Supplemental Information (OMSI)	LS	--	--	(10)
SUPPORTING FACILITIES				**170**
Site Preparations	LS	--	--	(30)
Demolition	LS	--	--	(60)
Anti-Terrorism/Force Protection	LS	--	--	(30)
Electrical Utilities	LS	--	--	(50)
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**2,790**
CONTINGENCY (10%)				279
TOTAL CONTRACT COST				**3,069**
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				175
DESIGN/BUILD – DESIGN COST (4%)				123
TOTAL REQUEST				**3,367**
TOTAL REQUEST (ROUNDED)				**3,400**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
This project renovates the Joint Use Intelligence Center (NH139) and replaces the emergency generator and paralleling controls, replaces two of the uninterrupted power source (UPS) system back-ups and associated panels, and provides new mounting pads. Project will replace programmable logic controller (PLC) including latest software programs, PLC bases and processors, and create PLC redundancy. Project adds automatic transfer switch (ATS) status to distributed input/output (DIST I/O), updates human machine interfaces (HMI) communications and Ethernet protocols to current software, provides operational manuals, testing, and training on use and processing, provides new batteries, generator, generator engine and utility controls with protection, replaces two aged (past useful life) UPSs and provides a much needed communication/alarm link to NH95 for power system failure or events. Project implements current antiterrorism measures and security requirements. Project provides demolition, installation, testing, and commissioning of all work.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
Project upgrades and makes repairs to NH139 Emergency Generator/Paralleling Controls and replaces two of the UPS system back-ups and associated panels.

REQUIREMENT:
This project improves energy resilience. NH139 services the Atlantic Fleet with facility space and supports critical missions of the tenant agency. The Public Works Directorate (PWD) Naval Support Activity (NSA) Hampton Roads (HR) is repairing and upgrading NH139 to meet tenant needs and requirements, to address failing or faltering systems, and to maintain NH139

1. COMPONENT Defense Wide – Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. Date Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAVSUPPACT Hampton Roads Norfolk, Virginia	Backup Power Generation

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81330	P1401	3,400

facility readiness.

CURRENT SITUATION:
NH139 emergency generator, the paralleling controls, and portions of the UPS back-up system are past useful life requiring upgrade/replacement. PLC's are failing and past their useful life, requiring replacement. Building lacks a communication link to NH95 to alert facility technicians, who are located at NH95, of any system issues or failure. NH139 suffers from an aging control system, lack of UPS reliability, failing generator, and failing PLCs that are aging and past their useful life. NH139 also lacks an alarm system communication link to NH95 for technicians in the event of issues or failure.

IMPACT IF NOT PROVIDED:
Power interruptions and failures will continue, bringing risk to critical NH139 tenant agency missions.

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: ENERGY RESILIENCE

c. Rationale IAW 10 USC 2914:

This project will provide adequate facilities and service, repair, and upgrade NH139 to address failing or faltering electrical backup systems. Operations occurring at Building NH139 service the Atlantic Fleet for critical missions.

Office of the Deputy Assistant Secretary of Defense (Environment & Energy Resilience)
703-843-0159

1. COMPONENT Defense Wide - NGA	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Fort Belvoir Springfield, Virginia	Chilled Water Redundancy

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	8132	NGA - 040	1,100

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**900**
Chilled Water Piping (CC8132)	LF	1,120	803.57	(900)
SUPPORTING FACILITIES				**10**
Commissioning	LS	--	--	(10)
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**910**
CONTINGENCY (5%)				46
TOTAL CONTRACT COST				**956**
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				54
DESIGN/BUILD – DESIGN COST (4%)				38
TOTAL REQUEST				**1,048**
TOTAL REQUEST (ROUNDED)				**1,100**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
Project provides for appropriate N+1 configuration for the existing chill water supply to NGA Campus East (NCE) data center/technology center. This is accomplished by installing overhead piping through the facilities from the Central Utility plant (CUP) to a designated mechanical room in the Technology Center (TC). The general provisioning infrastructure allowing for future chill water piping pathways to the data center has already been laid out in the initial construction of the facility. Future piping will run in parallel operations with existing piping system.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
This project reconfigures the existing chill water-cooling network by installing additional overhead supply and return piping.

REQUIREMENT:
This supports a continuous data center equipment cooling service in support of critical operational functions during scheduled and unscheduled maintenance activities or system failure events. Establishing an N+1 cooling configuration with multiple points of failure is essential for continuity of operations at NCE. Resiliency of the campus's data center cooling system must be improved by creating a parallel, multiple point of failure system to maintain capabilities to the end users during potential unexpected equipment maintenance activities or critical failure events.

CURRENT SITUATION:
During potential critical maintenance or equipment failure events, cooling capacity to the data/technology center at NCE is partially or completely interrupted. Currently no viable temporary mitigation measures are implemented to keep these critical operations functioning during the duration of the maintenance/failure activity.

1. COMPONENT Defense Wide - NGA	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Fort Belvoir Springfield, Virginia	Chilled Water Redundancy

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	8132	NGA - 040	1,100

IMPACT IF NOT PROVIDED:
NCE may lose partial or full cooling potential to data center operations in the event of a failure at any point along the subterranean chill water piping system

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: ENERGY RESILIENCE

c. Rationale IAW 10 USC 2914:

Project will provide continuous data center equipment cooling service in support of critical operational functions during scheduled and unscheduled maintenance activities or system failure events. Establishing an N+1 cooling configuration with multiple points of failure is essential for continuity of mission critical operations at NCE.

Office of the Deputy Assistant Secretary of Defense (Environment & Energy Resilience)
703-843-0159

1. COMPONENT Defense Wide – Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Camp Lemonnier Djibouti	Enhanced Energy Security and Control Systems

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	89050	P950	24,000

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**17,360**
Communications Infrastructure (CC89050)	LF	33,144	92.91	(3,080)
Operations Center & Integration (CC89051)	SF	200	4,509.45	(900)
Energy Conservation Measures	LS	--	--	(6,590)
Information Systems	LS	--	--	(720)
Built-In Equipment	LS	--	--	(4,930)
Special Costs	LS	--	--	(920)
Operation & Maintenance Supplemental Info (OMSI)	LS	--	--	(220)
SUPPORTING FACILITIES				**1,130**
Special Construction Features	LS	--	--	(1,120)
Site Preparations	LS	--	--	(10)
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**18,490**
CONTINGENCY (10%)				1,849
TOTAL CONTRACT COST				**20,339**
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (6.5%)				1,332
DESIGN/BUILD – DESIGN COST (10%)				2,034
TOTAL REQUEST				**23,695**
TOTAL REQUEST (ROUNDED)				**24,000**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

This project installs and integrates secured Facility Related Controls System (FRCS), cyber secures and integrates existing FRCSs, and designs and builds several energy conservation measures (ECMs) for Camp Lemonnier, Djibouti (CLDJ) to reduce fuel consumption and O&M costs at the Prime Power plant in CLDJ. This project also will repair and modernize various existing facilities for the purpose of energy savings and reducing maintenance costs. The project includes a Building Control System and retro-commissioning of multiple buildings. Utility Control System work includes installing monitoring and control equipment at water tanks water wells and wastewater lift stations. The project updates the Human Machine Interface (HMI) screens to reflect the system changes/upgrades; to share monitoring records; and to allow specialized personnel to identify discrepancies and/or abnormal operations. This project will install duct bank with fiber optic cable, modify existing fiber cabling to create a secure network infrastructure with all hardware, cabling, tubing, and terminations. It will also install copper cabling for cabling within buildings and create a Work Desk within facility 604, to include work-station environmental controls, equipment, and ICS staff working space.

ECMs will implement lighting and lighting controls; install programmable thermostats; install ventilation system upgrades; perform electrical load balancing at multiple buildings on panelboards; install water equipment upgrades at multiple buildings, including assessing and providing energy efficient pumping equipment, increasing the efficiency by repair of the solar hot water system, and evaluating and reducing the domestic hot water system for appropriate size; install building envelope upgrades at multiple buildings to include weather stripping windows and doors; and install Advanced Metering Infrastructure electric metering upgrades at multiple buildings.

1. COMPONENT Defense Wide – Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Camp Lemonnier Djibouti	Enhanced Energy Security and Control Systems

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	89050	P950	24,000

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
This project will install and integrate FRCS, cyber-secure existing FRCS, and repair and modernize various existing facilities for the purpose of energy savings.

REQUIREMENT:
CLDJ is a forward operating site and the primary base of operations for U.S. Africa Command in the Horn of Africa. Its location also has strategic significance for U.S. Central Command , U.S. Transportation Command, U.S. Special Operations Command, and other mission support functions. CLDJ is a strategic global posture supporting various classified air operations.

The project provides reliability in the form of cyber secure FRCS, with the facility to monitor and respond to outages and power quality issues quicker, ensuring less interruption in mission. This project improves energy resilience, decreases utility costs, and increases Navy's climate resilience. Energy security is especially important for CLDJ, given its isolated location and complete self-reliance for electric power production. This project will reduce the energy intensity for each affected facility, reduce occupancy comfort issues, and provide for an environment of peak performance to meet varying demand loads from these facilities. It will produce savings in energy consumption, fuel consumption and will also result in lower maintenance costs both at the Prime Power Plant and other facilities. Modern and secured system operations are required to provide immediate notification when systems fail, streamline, assist, and expedite the process of identifying system failures, and reduce time in the field troubleshooting and scoping repairs. This project will provide cybersecurity by performing the Risk Management Framework process for the systems as required in the Joint Letter "Cybersecurity Tasking for Ashore Control Systems, Serial 2".

CURRENT SITUATION:
Initially, Camp Lemonnier was intended to be a temporary installation; therefore, many of the buildings were built for economy instead of longevity and energy efficiency. The site is hot and humid most of the year. The hot season begins in June and lasts through the beginning of September. Average daily high temperatures during the hot season are above 38.3 degrees Celsius (101 degrees Fahrenheit). The cool season lasts from November through December with an average daily high temperature of 31.1 Celsius (88 degrees Fahrenheit). Due to the high temperatures and humidity, near constant air conditioning is required for basic comfort. The combination of energy inefficient buildings, high-cost electricity generation, onsite water purification, and extreme climate results in high costs for energy use. Camp Lemonnier generates its own power using diesel generators. There is no supplementary connection to an off-base electric distribution grid. The camp purifies underground water reserves for all water supply needs through the process of reverse osmosis, which requires significant energy use. CLDJ presently has some facility systems that are functional, but are not fully interconnected, are not maximizing efficiency, and periodically breakdown which impacts facility missions. The existing direct digital controls and locations do not have sufficient points to adequately monitor and control all HVAC systems, as well as enough points to control lighting. There is no common fiber optic network loop for control systems. Due to cyber security requirements, the existing systems do not meet compliance requirements in order to continue operations.

IMPACT IF NOT PROVIDED:
The installation will continue to pay high amounts for the electricity used on the installation. The inability to reduce energy use of facilities results in lower energy security. Meeting various energy reduction goals will not be realized and fuel consumption and O&M costs will not be reduced. This project will reduce CLDJ's energy intensity. Improvements in monitoring and control of building systems through the upgrade of controls in facilities will not be realized. The continuous commissioning of the facilities by continuously monitoring the operations and the status/condition of the building equipment and performing data analytics to identify and predict equipment malfunctions will not be possible. Therefore, the benefits

1. COMPONENT Defense Wide – Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Camp Lemonnier Djibouti	Enhanced Energy Security and Control Systems

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	89050	P950	24,000

resulting from re-commissioning will start to diminish rapidly after three to four years going to zero benefits within 10 years. The integration of the different operation systems into a common system, establishing a common database, developing analytics and dashboards, and developing a standard graphical interface will not occur. As a result, the Navy will not be able to reduce system losses, accurately understand the need for system upgrades to meet increasing loads, and reduce the need for maintenance. The Navy will not be able to respond to service outages much faster, reduce the number of tenants/customers impacted by the outages that occur, or be able to avoid service outages.

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000):	0
b. Project Type: ENERGY CONSERVATION	
c. Estimated Energy Conservation data:	
(1) Expected Savings-to-Investment Ratio:	2.32
(2) Simple Payback Estimate:	6.9 years
(3) Measurement & Verification (M&V) Cost:	$600,000
(4) M&V Plan: Utilize the smart grid to analyze and report savings	
(5) M&V Planned Funding Source: OMN	

Office of the Deputy Assistant Secretary of Defense (Environment & Energy Resilience)
703-843-0159

1. COMPONENT Defense Wide - Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAVBASE Guam - Joint Region Marianas Guam	Electrical Distribution System

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81232	P806	34,360

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**15,280**
Distribution System (CC81232)	LF	7,055	2,018.43	(14,240)
Special Costs	LS	--	--	(810)
Operation & Maintenance Supplemental Information (OMSI)	LS	--	--	(220)
Sustainability and Energy Features	LS	--		(10)
SUPPORTING FACILITIES				**11,530**
Site Preparations	LS	--	--	(2,370)
Electrical Utilities	LS	--	--	(7,330)
Mechanical Utilities	LS	--	--	(910)
Environmental Mitigation	LS	--	--	(920)
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**26,810**
CONTINGENCY (10%)				2,681
TOTAL CONTRACT COST				**29,491**
SUPERVISION, INSPECTION & OVERHEAD (6.5%)				1,917
DESIGN/BUILD – DESIGN COST (10%)				2,949
TOTAL REQUEST				**34,357**
TOTAL REQUEST (ROUNDED)				**34,360**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
Project constructs a new electrical distribution system connecting Polaris Point to Orote Power Plant. The scope of work includes design and construction of: approximately 2,575 feet of new electrical duct bank from the new Polaris Point Substation (P-676) to the East side disconnect switch at Polaris Point, approximately 1,230 feet of horizontal directional drill duct bank to the West side disconnect switch (Lima Wharf), and approximately 3,250 feet of new duct bank from west side disconnect switch to Ship Retrofit Facilities (SRF) substation. The distribution system includes new underground cables, pad-mounted transformers, pad mounted high Fire Point Insulated liquid-filled switchgears equipped with Vacuum Fault Interrupter (VFI) with Supervisory Control and Data Acquisition (SCADA) provision, concrete encased conduits, counterpoise ground wires, primary manholes, equipment concrete pad, and equipment grounding system. The improvements include installation of a dedicated 4 MW of emergency/standby back up power generation and SCADA to create a microgrid between Polaris Point and Orote at building 309 Orote Power Plant. Special costs include Post Construction Contract Award Services (PCAS) and cybersecurity commissioning for OMSI is included. Electrical Utilities include power/communication duct bank, facility power connection, electrical grounding, PVC conduit, SCADA control of electrical distribution with Human Machine Interface (HMI) and accessories and two multi-way oil type medium voltage pad mounted isolation switches. Mechanical Utilities include fuel tanks that can replenish each generator (2 MW each) daily and associated lines, tie-ins, new diesel fuel storage tanks, emission control equipment, load bank, remote radiators and lube tank.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
This project constructs an electrical distribution system loop to enable microgrid islanding capability, maintain power to critical port operation missions, and provide operational flexibility for power generation and fuel storage.

1. COMPONENT Defense Wide - Navy	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
NAVBASE Guam - Joint Region Marianas Guam	Electrical Distribution System

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81232	P806	34,360

REQUIREMENT:
This project improves energy resilience, decreases utility costs, increases Navy's climate resilience, and reduces Navy's effect on climate change. This project aligns with ERCIP requirements to improve power and energy reliability and resiliency by directly providing a redundant source of power for Polaris Point and Naval Base Guam (NBG) by improving power quality and upgrades to the electrical power distribution system to meet mission requirements. Any additional generation that can be installed as part of this project will help increase power resilience by providing additional backup in the event of an outage.

CURRENT SITUATION:
At Polaris Point and NBG, grid-wide frequency drops and voltage spikes/sags are adversely affecting the mission. In addition, the existing power plant generators at Orote substation are undersized and incapable of supplying reliable backup power to Polaris Point during utility power outages utilizing the current distribution system.

IMPACT IF NOT PROVIDED:
Unexpected power outages and/or power quality issues, will continue to effect Polaris Point resulting in an immediate stoppage of mission critical activities. Failure to provide this project would be inconsistent with DoD policy, which states, components shall take necessary steps to ensure energy resilience on military installations.

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: ENERGY RESILIENCE

c. Rationale IAW 10 USC 2914:

This project aligns with ERCIP requirements to improve power and energy reliability and resiliency by directly providing a redundant source of power for Polaris Point and NBG by improving power quality and upgrades to the electrical power distribution system to meet mission requirements.

Office of the Deputy Assistant Secretary of Defense (Environment & Energy Resilience)
703-843-0159

1. COMPONENT Defense Wide - DoDEA	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Kadena Air Base Japan	Lighting Upgrades

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	730787	PACE21013	780

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES Replace Lighting (CC 730787)	SF	157,263	4.07	**640** (640)
SUPPORTING FACILITIES				**0**
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**640**
CONTINGENCY (10%)				64
TOTAL CONTRACT COST				**704**
SUPERVISION, INSPECTION & OVERHEAD (6.5%)				46
DESIGN/BUILD – DESIGN COST (4%)				28
TOTAL REQUEST				**778**
TOTAL REQUEST (ROUNDED)				**780**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
This project replaces the lighting at multiple Kadena High School buildings with dimmable LED luminaires. The project scope includes removal and disposal of all existing overhead light fixtures in office spaces, classrooms, restrooms, hallways/corridors, information center, cafeteria, kitchen, storage rooms, and all other occupied spaces.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
This project will replace the lighting at Kadena High School with dimmable LED luminaires to conserve energy and deliver savings.

REQUIREMENT:
Modernize existing buildings' lighting to reduce overall energy consumption.

CURRENT SITUATION:
The existing lighting installed at Kadena High School is in poor condition. The lighting uses outdated T-8 fluorescent technology which requires significant efforts to operate and maintain. The existing lighting levels are substandard and do not meet current UFC requirements.

IMPACT IF NOT PROVIDED:
The substandard environment will continue to hamper the educational program for students. The required maintenance and repair of expired and failing systems will continue to strain maintenance capabilities and budgets. If not funded, an anticipated energy savings of 125,000 kwh per year will not be realized.

1. COMPONENT Defense Wide - DoDEA	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Kadena Air Base Japan	Lighting Upgrades

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	730787	PACE21013	780

12. SUPPLEMENTAL DATA:	
a. Other Appropriations or Funding Sources ($000):	0
b. Project Type: ENERGY CONSERVATION	
c. Estimated Energy Conservation data:	
(1) Expected Savings-to-Investment Ratio:	1.58
(2) Simple Payback Estimate:	14 years
(3) Measurement & Verification (M&V) Cost:	0
(4) M&V Plan: Measurement and Verification (if required) will be in accordance with the International Performance Measurement and Verification Protocol (IPMVP) utilizing Option A, Retrofit Isolation Approach, as described in the Measurement and Verification Guidelines for Federal Energy Projects.	
(5) M&V Planned Funding Source: Construction Contract	

Office of the Deputy Assistant Secretary of Defense (Environment & Energy Resilience)

703-843-0159

1. COMPONENT Defense Wide - Army	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Camp Arifjan Kuwait	Power Generation and Microgrid

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81122	94849	26,850

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**18,515**
Primary Power Generation, PV (CC81122)	KW	1,250	3,074	(3,500)
Electrical Switching Stations (CC81350)	KV	11	827,278	(9,000)
Battery Energy Storage System	LS	--	--	(800)
Distribution Line	LS	--	--	(2,900)
Microgrid Controls and Switchgear	LS	--	--	(1,200)
Distribution Line	LS	--	--	(900)
Building Information Systems	LS	--	--	(15)
Cybersecurity	LS	--	--	(200)
SUPPORTING FACILITIES				**4,400**
Electric Service	LS	--	--	(4,400)
PRIVATIZED UTILITY CONNECTION AND SERVICE FEE				0
SUBTOTAL				**22,915**
CONTINGENCY (10%)				2,292
TOTAL CONTRACT COST				**25,207**
SUPERVISION, INSPECTION & OVERHEAD (6.5%)				1,638
TOTAL REQUEST				**26,845**
TOTAL REQUEST (ROUNDED)				**26,850**
OTHER APPROPRIATIONS OR FUNDING SOURCES (NON ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
Install a grid tie from Zone 4 Power Plant (Z4PP) with an underground feeder electric cable conductor feed from Z4PP to Theater Intelligence Platform-Central (TIP-C) then continuing to Main Communications Facility (MCF) Signal Compound to power critical facilities. Install rooftop mount solar photovoltaic (PV) array, and 1.0 MW/2.0 MWH battery energy storage system (BESS). Install Automatic Transfer Switches and microgrid controls. Install electric meters at facilities and PV systems. Upgrade zone 4 power plant generator controls with microgrid controls to incorporate solar PV and battery storage with BESS controller. This project will also make provisions for a new 10 MW dedicated feeder line from Z4PP to the new Host Nation zone 4 substation, and install a 11kV distribution line from Z4PP to TIP-C compound and continue on to the MCF signal compound. Install new dual feed substations at both TIP-C and MCF Signal Compound, 11kV to 415/230V transformers, breakers and switchgear.

11. REQUIREMENT: N/A ADQT: N/A SUBSTD: N/A

PROJECT:
Installs solar Photovoltaics, dual-feed substations, and a BESS at critical facilities in TIP-C and MCF.

REQUIREMENT:
Critical loads at Camp Arifjan are required for 24/7 operations, and this system would cover a major portion of these loads with improved resilient power supply architecture for two critical facility compound areas: (1) The TIP-C compound and (2) The MCF signal compound. It will install new dual feed substations at both TIP-C and MCF Signal Compounds connecting them to Host Nation power and Zone 4.

1. COMPONENT Defense Wide - Army	**FY 2023 ENERGY RESILIENCE AND CONSERVATION MILITARY CONSTRUCTION PROJECT DATA**	2. DATE Mar 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
Camp Arifjan Kuwait	Power Generation and Microgrid

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0904903D	81122	94849	26,850

CURRENT SITUATION:

The US Army-owned central generation plant is providing redundant and resilient power to these critical facilities. Both compounds are powered by aged and failing diesel generators which will continue to allow for electricity costs to remain unnecessarily high and dependent on truck-delivered diesel fuel. Maintenance calls will remain frequent, and replacement parts for older gensets will be harder to find and critical missions will be compromised in case of fuel shortages. The Z4PP currently consists of six diesel gensets rated at 1,000 kW each, and serves multiple mission essential facilities with total load of 2.4 MW. Most essential missions are on the Host Nation power grid, receive Assistance-in-Kind power, and have conventional diesel genset back-up power. Host Nation grid power does not meet 8 months of summer demand and the gap is filled by spot diesel generation, resulting in lack of resiliency and high costs for diesel purchase and generator rental. In addition, two major facilities with large electric loads, TIP-C and MCF compounds, are not currently connected to the Host Nation grid. Currently, both TIP-C and MCF are served primary power and backup power by diesel generators. TIP-C and MCF are critical facilities and large consumers of diesel and lack resiliency.

IMPACT IF NOT PROVIDED:

Army facility operations will continue to require and be dependent upon truck-delivered diesel fuel. Electricity costs will remain unnecessarily high. Existing genset replacement parts will be harder to find and equipment maintenance will steadily increase. Host Nation power and fuel supply interruptions will compromise critical missions. Grid management issues will remain unchanged. Critical facilities will require spot generation, require significant maintenance, and will lack resiliency.

12. SUPPLEMENTAL DATA:

a. Other Appropriations or Funding Sources ($000): 0

b. Project Type: ENERGY RESILIENCE

c. Rationale IAW 10 USC 2914:

Camp Arifjan requires resilient power supply architecture for 24/7 operations. This new system will provide significant cost savings and resiliency benefits. It will provide redundant grid-tie feeds to the critical facilities. With a new dedicated feed between the two most critical compounds outlined in the detailed project description, islanding for any possible lengthy Host Nation grid outages will be much more simplified and faster than utilizing existing distribution feeders/substations/Utility Distribution Systems.

Office of the Deputy Assistant Secretary of Defense (Environment & Energy Resilience)
703-843-0159

1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. Date MAR 2022

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
VARIOUS	UNSPECIFIED MINOR CONSTRUCTION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
N/A	N/A	N/A	119,072

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Unspecified Minor Construction				**119,072**
Defense Health Agency				(15,000)
Defense Logistics Agency				(31,702)
DoD Education Activity				(8,000)
National Security Agency				(6,000)
Joint Chiefs of Staff				(18,644)
U.S. Special Operations Command				(36,726)
Defense Level Activities				(3,000)

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Funds to be utilized for construction activities authorized under section 2805, Title 10 of United States Code, by the Defense Agencies and Secretary of Defense activities.

11. REQUIREMENT:

New and expanded facilities supporting Defense-wide missions with a cost up to $6,000,000 adjusted for location (not to exceed $10,000,000) within the U.S. and territories, and up to $6,000,000 elsewhere. The amount requested is considered a reasonable estimate to provide the numerous Defense Agencies and Activities flexibility in managing their construction programs.

The minor construction activities include the Joint Chiefs of Staff sponsored exercise related construction program.

12. Supplemental Data:

N/A

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1. COMPONENT	FY 2023 MILITARY CONSTRUCTION PROJECT DATA	2. Date MAR 2022
3. INSTALLATION AND LOCATION VARIOUS	4. PROJECT TITLE: PLANNING & DESIGN	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
N/A	N/A	N/A	422,377

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Planning and Design				**422,377**
Defense Health Agency				(33,227)
Defense Logistics Agency				(30,000)
DoD Education Activity				(20,086)
Missile Defense Agency				(47,063)
National Security Agency				(9,618)
U.S. Special Operations Command				(26,978)
Joint Chiefs of Staff				(2,360)
Washington Headquarters Services				(2,106)
Defense Level Activities				(26,689)
ERCIP Design				(224,250)

10. DESCRIPTION OF PROPOSED CONSTRUCTION:
Funds to be utilized under Title 10 USC 2807 by the Defense Agencies and Secretary of Defense activities for architectural and engineering services and construction design in connection with military construction projects including specified projects, standing authority construction (including unspecified minor construction) projects, land appraisals, and other projects as directed. Engineering investigations, such as field surveys and foundation exploration, will be undertaken as necessary.

11. REQUIREMENT:

All construction projects must be based on sound engineering and the best cost data available. These costs for architectural and engineering services and construction design are not provided for in the construction project cost estimates except in those where Design/Build contracting method is used.

Defense level activities covers planning and design for various defense activities, planning and design associated with exercise related construction, and covers efforts across the Department to standardize and distribute uniform design criteria.

Energy Resilience and Conservation Investment Program (ERCIP) Design provides the planning and design required to support ERCIP projects.

12. Supplemental Data:

N/A

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Organization	State Country	Fiscal Year	Location Title	Line Item Title	TOA Amount
DEFW	ZU	2023	Unspecified Worldwide Locations	Energy Resilience and Conserv. Invest. Prog.	329,000
DEFW	ZU	2024	Unspecified Worldwide Locations	Energy Resilience and Conserv. Invest. Prog.	548,000
DEFW	ZU	2025	Unspecified Worldwide Locations	Energy Resilience and Conserv. Invest. Prog.	630,000
DEFW	ZU	2026	Unspecified Worldwide Locations	Energy Resilience and Conserv. Invest. Prog.	762,000
DEFW	ZU	2027	Unspecified Worldwide Locations	Energy Resilience and Conserv. Invest. Prog.	776,000
DHA	GY	2023	Rhine Ordnance Barracks	Medical Center Replacement INC 10	299,790
DHA	MD	2023	Bethesda Naval Hospital	MEDCEN Addition / Alteration INC 6	75,500
DHA	TX	2023	Joint Base San Antonio	Ambulatory Care Center Replacement (Dental)	58,600
DHA	GB	2024	Guantanamo Bay Naval Station	Ambulatory Care Center	176,000
DHA	GY	2024	Rhine Ordnance Barracks	Medical Center Replacement	77,210
DHA	HI	2024	Schofield Barracks	Ambulatory Care Center Alt & Parking Garage	59,200
DHA	MD	2024	Bethesda Naval Hospital	Medical Center Addition/Alteration Incr 7	179,467
DHA	MO	2024	Fort Leonard Wood	Hospital Incr 5	31,300
DHA	CA	2025	Camp Pendleton	Ambulatory Care Center Add/Alt (Area 53)	21,500
DHA	CA	2025	Camp Pendleton	Ambulatory Care Center Add/Alt (Area 62)	22,000
DHA	CA	2025	Camp Pendleton	Ambulatory Care Center Replacement (Area 22)	37,000
DHA	CA	2025	San Diego	Ambulatory Care Center Replacement	88,000
DHA	CO	2025	Fort Carson	Ambulatory Care Center Replacement	29,000
DHA	KR	2025	Kunsan Air Base	Ambulatory Care Center Replacement	52,000
DHA	SC	2025	Parris Island	Ambulatory Care Clinic Replacement (Dental)	54,000
DHA	UK	2025	Royal Air Force Lakenheath	Hospital Replacement	227,000
DHA	DE	2026	Dover AFB	Blood Processing Center Replacement	22,000
DHA	HI	2026	Joint Base Pearl Harbor-Hickam	Ambulatory Care Center Replacement	468,005
DHA	WA	2026	Joint Base Lewis-Mcchord	Ambulatory Care Center Replacement	24,000
DHA	AR	2027	Pine Bluff Arsenal	Ambulatory Care Center (Occ Health)	15,000
DHA	DC	2027	Jb Anacostia Bolling	Ambulatory Care Center Replacement	58,000
DHA	MD	2027	Fort Meade	Ambulatory Care Center	116,333
DHA	SC	2027	Beaufort	Ambulatory Care Center Replacement	153,000
DHA	UK	2027	Royal Air Force Lakenheath	Hospital Replacement	113,000
DHA	WA	2027	Kitsap	Ambulatory Care Center Replacement	56,005
DIA	AL	2024	Redstone Arsenal	MSIC Advanced Analysis Facility Phase 1	122,570
DIA	VA	2024	Fort Belvoir	DIA HQ Annex Ft Belvoir	185,000
DIA	AL	2025	Redstone Arsenal	MSIC Advanced Analysis Facility Phase 2	114,376
DLA	JA	2023	Iwakuni	PDI: Bulk Storage Tanks PH 1	85,000
DLA	JA	2023	Yokota AB	PDI: Bulk Storage Tanks PH I (INC)	44,000
DLA	HO	2024	Soto Cano AB	Fuel Facilities	27,500
DLA	JA	2024	Yokota AB	PDI: Bulk Storage Tanks PH I (INC)	22,300
DLA	MD	2024	Andrews AFB	Hydrant Fuel System	25,300
DLA	MO	2024	Whiteman AFB	Fuel Stand and Vehicle Fill Station	16,700
DLA	MT	2024	Great Falls IAP	POL Complex	28,100
DLA	SP	2024	Rota	Bulk Tank Farm (PH-1 of 4)	71,000
DLA	TX	2024	Corpus Christi Army Depot	Construct General Purpose Warehouse	36,400
DLA	WA	2024	Manchester	Replace Bulk Storage Tanks, (PH-2)	64,000
DLA	AK	2025	Jb Elmendorf-Richardson	F22 Fuel System	52,000

Organization	State Country	Fiscal Year	Location Title	Line Item Title	TOA Amount
DLA	AL	2025	Anniston Army Depot	General Pupose Warehouse	21,000
DLA	CA	2025	Bridgeport	Fuel Facilities	6,700
DLA	FL	2025	Macdill AFB	Construct Hydrant Fuel System	15,200
DLA	JA	2025	Iwakuni	PDI: Bulk Storage Tanks	84,000
DLA	PA	2025	Def Distribution Depot New Cumberland	General Purpose Warehouse (730)	58,600
DLA	SC	2025	Beaufort	Fuel Pier	11,900
DLA	WA	2025	Whidbey Island	Hydrant System Area C	23,540
DLA	CO	2026	Fort Carson	Construct General Purpose Warehouse	20,000
DLA	GU	2026	Andersen AFB	PDI: Hydrant System Pump House 3-4	17,330
DLA	JA	2026	Yokosuka	PDI: Fuel Pier	85,200
DLA	SP	2026	Rota	Replace Bulk Tank Farm PH2	71,000
DLA	WA	2026	Manchester	Bulk Storage Tanks PH3 Replacement	72,000
DLA	AK	2027	Eielson AFB	Fuels Management and Lab Fac	11,454
DLA	GU	2027	Andersen AFB	PDI: Bulk Tanks and Operations System	100,000
DLA	NC	2027	Cherry Point Marine Corps Air Station	Construct General Purpose Warehouse	66,200
DLA	VA	2027	Craney Island	Fuel Storage Tanks Phase 1	41,300
DLA	WA	2027	Fairchild AFB	Hydrant System Area C	47,520
DODEA	GY	2023	Baumholder	Baumholder Elementary School	71,000
DODEA	GY	2023	Weisbaden	Clay Kaserne Elementary School	60,000
DODEA	JA	2023	Yokosuka	Kinnick High School INC	20,000
DODEA	BE	2024	Brussels	Sterrebeek Bld 8/Garage	14,000
DODEA	JA	2024	Yokosuka	Kinnick High School INC	70,386
DODEA	JA	2024	Yokota AB	Kubasaki High School Replacement/Renovation	177,000
DODEA	GA	2025	Fort Benning	Dexter Elementary School	70,000
DODEA	GA	2025	Fort Benning	Ft. Benning Schools Mod	25,000
DODEA	KY	2025	Fort Knox	Scott MS - Addition	65,000
DODEA	PR	2025	Puerto Rico IAP	Antilles Schools Modernization	35,000
DODEA	UK	2025	Royal Air Force Lakenheath	Lakenheath High School Replacement	130,000
DODEA	GY	2026	Baumholder	Baumholder MS/HS - replace school	105,000
DODEA	JA	2026	Atsugi	Lanham Elementary School Modernization	30,000
DODEA	JA	2026	Camp Zama	Zama Schools Modernization	60,000
DODEA	JA	2026	Yokota AB	Yokota Schools Modernization	75,000
DODEA	NC	2026	Camp Lejeune	Lejeune Schools Modernization	55,000
DODEA	GY	2027	Ansbach	Replace Ansbach Elementary School	66,000
DODEA	GY	2027	Ramstein AB	RAMSTEIN ES	93,000
DODEA	NC	2027	Fort Bragg	Ft Bragg Schools Modernization	75,000
DODEA	UK	2027	Royal Air Force Alconbury	Alconbury ES Replacement	60,000
MDA	AL	2024	Redstone Arsenal	Ground Test Facility Infrastructure	144,100
MDA	GU	2024	Andersen AFB	PDI: Defense of Guam Site 4	31,000
MDA	GU	2024	Apra Harbor	PDI: Defense of Guam Site 2	69,000
MDA	GU	2024	Barrigada	PDI: Defense of Guam Site 3	31,000
MDA	GU	2024	Finegayan	PDI: Defense of Guam Site 1	212,000
MDA	ZU	2024	Various Worldwide Locations	PDI: Defense of Guam Island Infrastructure	8,000
NSA	MD	2023	Fort Meade	NSAW Mission Ops and Records Center (INC)	140,000

Organization	State Country	Fiscal Year	Location Title	Line Item Title	TOA Amount
NSA	MD	2023	Fort Meade	NSAW Recap Building 4 (INC)	378,000
NSA	GY	2024	Wiesbaden Army Airfield	Germany Warehouse	30,000
NSA	MD	2024	Fort Meade	NSAW Mission Ops and Records Center (INC)	65,000
NSA	MD	2024	Fort Meade	NSAW Recap Buidling 5 (ECB5)	65,000
NSA	MD	2024	Fort Meade	NSAW Recap Building 4 (INC)	315,000
NSA	MD	2025	Fort Meade	NSAW Recap Building 5 (ECB5)	370,000
NSA	HI	2026	Kunia	KUNIA Post 1 Construction	50,000
NSA	MD	2026	Fort Meade	NSAW Recap Building 5 (ECB5)	321,000
NSA	HI	2027	Wahiawa	NSAH Water Redundancy	10,000
NSA	MD	2027	Fort Meade	Central Boiler Plant	90,000
NSA	TX	2027	Fort Hood	NSAT Building Acquisition	150,000
NSA	UK	2027	Menwith Hill Station	RAFMH Fire Station	20,000
NSA	UT	2027	Camp Williams	NSAU Consolidation	80,000
SOCOM	CA	2023	Coronado	SOF Operations Support Facility	75,712
SOCOM	FL	2023	Hurlburt Field	SOF Human Performance Training Center	9,100
SOCOM	GY	2023	Baumholder	SOF Battalion Annex	22,468
SOCOM	GY	2023	Baumholder	SOF Communications Annex	9,885
SOCOM	GY	2023	Baumholder	SOF Operations Annex	23,768
SOCOM	GY	2023	Baumholder	SOF Support Annex	21,902
SOCOM	JA	2023	Yokota AB	PDI: Operations and Warehouse Facilities	72,154
SOCOM	NC	2023	Fort Bragg	SOF Operations Building	18,870
SOCOM	NC	2023	Fort Bragg	SOF Supply Support Activity	15,600
SOCOM	VA	2023	Dam Neck	SOF Operations Building Addition	26,600
SOCOM	GA	2024	Hunter Army Airfield	SOF Military Working Dog Kennel Facility	10,028
SOCOM	GY	2024	Baumholder	SOF Human Performance Training Center	12,400
SOCOM	GY	2024	Baumholder	SOF Joint Parachute Rigging Facility	13,400
SOCOM	GY	2024	Baumholder	SOF Operational Readiness Annexes	31,000
SOCOM	NC	2024	Camp Lejeune	SOF Marine Raider Battalion Company/Team Facility	65,000
SOCOM	NC	2024	Camp Lejeune	SOF Support Facility Expansions	12,000
SOCOM	VA	2024	Joint Expeditionary Base Little Creek - Story	SOF SDVT2 Operations Support Facility	55,550
SOCOM	WA	2024	Joint Base Lewis-Mcchord	SOF Consolidated Rigging Facility	58,600
SOCOM	WA	2024	Joint Base Lewis-Mcchord	SOF Tactical Equipment Maintenance Facility	31,257
SOCOM	AZ	2025	Yuma	SOF Consolidated Rigging Facility	25,000
SOCOM	AZ	2025	Yuma	SOF Military Free Fall Advanced Training Comp	54,100
SOCOM	CA	2025	Coronado	SOF Operations Support Facility	41,697
SOCOM	FL	2025	Eglin AUX9	SOF Fuel Cell Hangar	16,200
SOCOM	JA	2025	Kadena AB	PDI: SOF Maintenance Hangar	123,200
SOCOM	NC	2025	Fort Bragg	SOF Mackall Company Operations Facilities	18,500
SOCOM	NM	2025	Cannon AFB	SOF Simulator Facility (MC & AC-130Js)	26,200
SOCOM	VA	2025	Joint Expeditionary Base Little Creek - Story	SOF Human Performance Training Center	26,400
SOCOM	WA	2025	Keyport	SOF Coldwater Training/Austere Environment Facility	22,400
SOCOM	CA	2026	Coronado	SOF SERE Training Facility	26,500
SOCOM	CA	2026	San Clemente Island	SOF Combatant Craft Launch and Recovery Fac.	50,000
SOCOM	CO	2026	Fort Carson	SOF Group Heaquarters Expansion	40,000

Organization	State Country	Fiscal Year	Location Title	Line Item Title	TOA Amount
SOCOM	ET	2026	Unspecified Estonia	EDI: SOF Operations Facility	6,100
SOCOM	HI	2026	Pearl City	SOF NSWG4 Combatant Craft Operations Facility	66,960
SOCOM	JA	2026	Kadena AB	PDI: SOF Composite Maintenance Facility	11,000
SOCOM	NC	2026	Camp Lejeune	SOF MRSB and UAS Facilities	16,000
SOCOM	NC	2026	Fort Bragg	SOF FOB Freedom Upgrades	24,000
SOCOM	NC	2026	Fort Bragg	SOF Mission Command Center	80,000
SOCOM	NC	2026	Fort Bragg	SOF Operational Ammunition Supply Point	76,000
SOCOM	VA	2026	Dam Neck	SOF Operations Facility Renovation	7,600
SOCOM	FL	2027	Hurlburt Field	SOF Parking Apron (AC-130J)	40,000
SOCOM	FL	2027	Macdill AFB	SOF Joint MISO Web-Operations Facility	76,578
SOCOM	FL	2027	Macdill AFB	SOF Operations Integration Facility	21,181
SOCOM	NC	2027	Fort Bragg	SOF Battalion Operations Facility	41,000
SOCOM	NC	2027	Fort Bragg	SOF Joint Intelligence Center	57,000
SOCOM	NC	2027	Fort Bragg	SOF Tactical Equipment Maintenance Facility	36,000
SOCOM	VA	2027	Fort Pickett	SOF SOUC Training Facility	45,530
SOCOM	WA	2027	Joint Base Lewis-Mcchord	SOF Battalion Operations Facility	41,000
WHS	VA	2023	Pentagon	Commercial Vehicle Inspection Facility	18,000
WHS	VA	2024	Pentagon	Security and Pedestrian Access Facility	28,000
WHS	VA	2025	Pentagon	Metro Entrance Pedestrian Access Control Pt.	33,800
WHS	VA	2026	Pentagon	Operations Facility	34,000
WHS	VA	2027	Pentagon	RT Fuel Storage and Access Road	33,500

FAMILY HOUSING, DEFENSE-WIDE
Fiscal Year (FY) 2023 Budget Estimates

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FAMILY HOUSING, DEFENSE-WIDE
Fiscal Year (FY) 2023 Budget Estimates

PROGRAM SUMMARY
(Dollars in Thousands)

	($000)
FY 2023 Budget Request	57,049
FY 2022 Enacted	56,360

	DIA	DLA	NSA	OASD (EI&E)	FY 2023 TOTAL
Family Housing Construction					
New Construction	-	-	-	-	-
Improvements	-	-	-	-	-
Planning and Design	-	-	-	-	-
Construction Subtotal	**-**	**-**	**-**	**-**	**-**
Family Housing Operation & Maintenance (O&M)					
Utilities	4,166	-	15	-	4,181
Operations:					
Furnishings	656	-	87	-	743
Management	-	-	-	-	-
Services	-	-	-	-	-
Total Operations	656	-	87	-	743
Maintenance	-	-	34	-	34
Leasing	31,849	-	13,306	-	45,155
O&M Subtotal	**36,671**	**-**	**13,442**	**-**	**50,113**
Family Housing Improvement Fund (FHIF)					
FHIF Administrative	-	-	-	6,442	**6,442**
Military Unaccompanied Housing Improvement Fund (MUHIF)					
MUHIF Administrative	-	-	-	494	**494**
Total FH DW Programs	**36,671**	**-**	**13,422**	**6,936**	**57,049**

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FAMILY HOUSING, DEFENSE-WIDE
Fiscal Year (FY) 2023 Budget Estimates

APPROPRIATION LANGUAGE

FAMILY HOUSING OPERATION AND MAINTENANCE, DEFENSE-WIDE

For expenses of family housing for the activities and agencies of the Department of Defense (other than the military departments) for operation and maintenance, leasing, and minor construction, as authorized by law, $50,113,000.

DEPARTMENT OF DEFENSE FAMILY HOUSING IMPROVEMENT FUND

For the Department of Defense Family Housing Improvement Fund, $6,442,000, to remain available until expended, for family housing initiatives undertaken pursuant to section 2883 of Title 10, United States Code, providing alternative means of acquiring and improving military family housing and supporting facilities.

DEPARTMENT OF DEFENSE MILITARY UNACCOMPANIED HOUSING IMPROVEMENT FUND

For the Department of Defense Military Unaccompanied Housing Improvement Fund, $494,000 to remain available until expended, for unaccompanied housing initiatives undertaken pursuant to section 2883 of Title 10, United States Code, providing alternative means of acquiring and improving military unaccompanied housing and supporting facilities.

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FAMILY HOUSING, DEFENSE-WIDE
Fiscal Year (FY) 2023 Budget Estimates

FAMILY HOUSING OPERATION & MAINTENANCE, DEFENSE-WIDE

The FY 2023 Family Housing Operation and Maintenance, Defense-Wide request is $4,958,000 (excludes leasing costs, which will be addressed separately). The Operation and Maintenance account includes maintenance and repair of government-owned housing units and associated real property; utility services; repair, replacement, transportation and handling of furniture and furnishings; refuse collection and disposal services; management services; and other miscellaneous support. Furnishings support for members of the Defense Attaché System are also included.

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FAMILY HOUSING, DEFENSE-WIDE
Fiscal Year (FY) 2023 Budget Estimates

FAMILY HOUSING OPERATION AND MAINTENANCE SUMMARY
(Excludes Leased Units and Costs)

A. Inventory Data	FY 2021	FY 2022	FY 2023
Units in Being Beginning of Year	1	1	1
Units in Being End of Year	1	1	1
Average Inventory for Year	1	1	1
Units Requiring O&M Funding			
a. Conterminous U.S.	-	-	-
b. U.S. Overseas	-	-	-
c. Foreign	1	1	1
d. Worldwide	-	-	-

	FY 2021		FY 2022		FY 2023	
	Unit Cost ($)	Total Cost ($000)	Unit Cost ($)	Total Cost ($000)	Unit Cost ($)	Total Cost ($000)
B. Funding Requirements						
1. Operations						
a. Management	-	-	-	-	-	-
b. Services	-	-	-	-	-	-
c. Furnishings	82,000	715	83,000	739	87,000	743
d. Miscellaneous	-	-	-	-	-	-
Direct Obligations-Operations	82,000	715	83,000	739	87,000	743
Anticipated Reimbursements	-	-	-	-	-	-
Subtotal-Gross Obligations	82,000	715	83,000	739	87,000	743
2. Utilities						
Direct Obligations-Utilities	3,000	4,225	14,000	4,180	15,000	4,181
Anticipated Reimbursements	-	-	-	-	-	-
Subtotal-Gross Obligations	3,000	4,225	14,000	4,180	15,000	4,181
3. Maintenance						
a. M&R Dwellings	15,000	15	49,000	49	34,000	34
b. M&R Exterior Utilities	-	-	-	-	-	-
c. M&R Other Real Property	-	-	-	-	-	-
d. Alterations & Additions	-	-	-	-	-	-
Direct Obligations-Maintenance	15,000	15	49,000	49	34,000	34
Anticipated Reimbursements	-	-	-	-	-	-
Subtotal-Gross Obligations	15,000	15	49,000	49	34,000	34
Total Direct Obligations	**100,000**	**4,955**	**146,000**	**4,968**	**136,000**	**4,958**
Anticipated Reimbursements	-	-	-	-	-	-
Total Gross Obligations	**100,000**	**4,955**	**146,000**	**4,968**	**136,000**	**4,958**

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NATIONAL SECURITY AGENCY
Family Housing Operation and Maintenance, Defense-wide
Fiscal Year (FY) 2023 Budget Estimates

PROGRAM SUMMARY
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
New Construction	-	-	-
Improvements	-	-	-
Planning and Design	-	-	-
Construction Subtotal	-	-	-
Utilities	3	14	15
Operations	82	83	87
Maintenance	15	49	34
Leasing	12,336	13,387	13,306
O&M Subtotal	12,436	13,533	13,442
Reimbursable	-	-	-
Total Program	**12,436**	**13,533**	**13,442**

NSA's Family Housing Program provides the housing for NSA (civilian and military) employees working overseas. The majority of housing is leased. The total number of government-owned residential units will remain at 1 unit from the beginning to the end of FY 2023. This program summary displays a funding profile for the leasing of housing units as well as expenses for the government-owned unit, to include utilities, operations, and maintenance funding.

NATIONAL SECURITY AGENCY
Family Housing Operation and Maintenance, Defense-Wide
Fiscal Year (FY) 2023 Budget Estimates

OPERATION AND MAINTENANCE SUMMARY
(Excludes Leased Units and Costs)

A. Inventory Data	**FY 2021**	**FY 2022**	**FY 2023**
Units in Being Beginning of Year	1	1	1
Units in Being End of Year	1	1	1
Average Inventory for Year	1	1	1
Units Requiring O&M Funding			
a. Conterminous U.S.	-	-	-
b. U.S. Overseas	-	-	-
c. Foreign	1	1	1
d. Worldwide	-	-	-

	FY 2021		**FY 2022**		**FY 2023**	
	Unit Cost ($)	Total Cost ($000)	Unit Cost ($)	Total Cost ($000)	Unit Cost ($)	Total Cost ($000)
B. Funding Requirements						
1. Operations						
a. Management	-	-	-	-	-	-
b. Services	-	-	-	-	-	-
c. Furnishings	82,000	82	83,000	83	87,000	87
d. Miscellaneous	-	-	-	-	-	-
Direct Obligations-Operations	82,000	82	83,000	83	87,000	87
Anticipated Reimbursements	-	-	-	-	-	-
Subtotal-Gross Obligations	82,000	82	83,000	83	87,000	87
2. Utilities						
Direct Obligations-Utilities	3,000	3	14,000	14	15,000	15
Anticipated Reimbursements	-	-	-	-	-	-
Subtotal-Gross Obligations	3,000	3	14,000	14	15,000	15
3. Maintenance						
a. M&R Dwellings	15,000	15	49,000	49	34,000	34
b. M&R Exterior Utilities	-	-	-	-	-	-
c. M&R Other Real Property	-	-	-	-	-	-
d. Alterations & Additions	-	-	-	-	-	-
Direct Obligations-Maintenance	15,000	15	49,000	49	34,000	34
Anticipated Reimbursements	-	-	-	-	-	-
Subtotal-Gross Obligations	15,000	15	49,000	49	136,000	34
Total Direct Obligations	**100,000**	**100**	**146,000**	**146**	**136,000**	**136**
Anticipated Reimbursements	-	-	-	-	-	-
Total Gross Obligations	**100,000**	**100**	**146,000**	**146**	**136,000**	**136**

NATIONAL SECURITY AGENCY
Family Housing Operation and Maintenance, Defense-Wide
Fiscal Year (FY) 2023 Budget Estimates

OPERATION AND MAINTENANCE

OP-5 Reconciliation of Increases and Decreases

Operations: Supports residential unit maintenance, repair, and replacement of furnishings, and administrative support at the installation level.

Utilities: Supports residential unit utility services such as water, sewage, sewage treatment fees, electricity, natural gas, propane gas, etc.

Maintenance: Supports residential unit maintenance and repair, associated utility systems, minor alterations, and other incidental improvements.

Operations-Furnishings:	**($000)**
1. FY 2022 President's Budget Request	**83**
2. FY 2022 Appropriated Amount	83
3. FY 2022 Current Estimate	83
4. Price Change	+2
5. Program Increase: Unit furnishing requirements are expected to remain stable in FY 2023.	+2
6. FY 2023 Budget Request	**87**

Utilities:	**($000)**
1. FY 2022 President's Budget Request	**14**
2. FY 2022 Appropriated Amount	14
3. FY 2022 Current Estimate	14
4. Price Change	0
5. Program Increase: Unit utility requirements are expected to remain stable in FY 2023.	1
6. FY 2023 Budget Request	**15**

Maintenance:	**($000)**
1. FY 2022 President's Budget Request	**49**
2. FY 2022 Appropriated Amount	49
3. FY 2022 Current Estimate	49
4. Price Change	1
5. Program Decrease: Unit maintenance requirements are estimated to be lower based on the results of a program review.	-16
6. FY 2023 Budget Request	**34**

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DEFENSE INTELLIGENCE AGENCY
Family Housing Operation and Maintenance, Defense-Wide
Fiscal Year (FY) 2023 Budget Estimates

PROGRAM SUMMARY
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
New Construction	-	-	-
Improvements	-	-	-
Planning and Design	-	-	-
Construction Subtotal	-	-	-
Operations	633	656	656
Utilities	4,222	4,166	4,166
Maintenance	-	-	-
Leasing	36,481	31,430	31,849
O&M Subtotal	41,336	36,252	36,671
Reimbursable	-	-	-
Total Program	**41,336**	**36,252**	**36,671**

One of the missions of the Defense Intelligence Agency (DIA), in its role as single manager for Department of Defense (DoD) strategic Human Intelligence, is the direction, operations, and support (including housing support) for the Defense Attaché Service (DAS). The DAS is a critical component of Human Intelligence collection capabilities within DoD and is the only component wholly controlled by the DIA. The mission of the DAS is: (1) observe and report military and politico-military information; (2) advise the U.S. Ambassador on military and politico-military matters; (3) represent the DoD and the military services; and (4) administer military assistance programs and foreign military sales as directed. These missions are accomplished through the Defense Attaché Offices (DAO), which are organic elements of the U.S. Diplomatic Missions.

As the Single Real Property Manager, the Department of State (DoS) through the embassy Housing Board assigns housing for Attachés and their support staffs at a level of expense and square footage that is equivalent to their DoS and other tenant agency counterparts.

The DIA's Budget Submission for the FY 2023 Family Housing Program funds government leases (of which approximately 211 are high cost leases) at DAOs worldwide. These funds provide for all lease costs which include utilities, residential protection services, custodial and fire protection services, furnishings and appliances (including maintenance, repair, and annual assessment fees), and administrative services performed by the DoS under the International Cooperative Administrative Support Services (ICASS) and Memoranda of Understanding.

DEFENSE INTELLIGENCE AGENCY
Family Housing Operation and Maintenance, Defense-wide
Fiscal Year (FY) 2023 Budget Estimates

OPERATION AND MAINTENANCE SUMMARY
(Excludes Leased Units and Costs)

A. Inventory Data	FY 2021	FY 2022	FY 2023
Units in Being Beginning of Year	-	-	-
Units in Being End of Year	-	-	-
Average Inventory for Year	-	-	-
Units Requiring O&M Funding			
a. Conterminous U.S.	-	-	-
b. U.S. Overseas	-	-	-
c. Foreign	-	-	-
d. Worldwide	-	-	-

	FY 2021		FY 2022		FY 2023	
	Unit Cost ($)	Total Cost ($000)	Unit Cost ($)	Total Cost ($000)	Unit Cost ($)	Total Cost ($000)
B. Funding Requirements						
1. Operations						
a. Management	-	-	-	-	-	-
b. Services	-	-	-	-	-	-
c. Furnishings	-	633	-	656	-	656
d. Miscellaneous	-	-	-	-	-	-
Direct Obligations-Operations	-	633	-	656	-	656
Anticipated Reimbursements	-	-	-	-	-	-
Subtotal-Gross Obligations	-	633	-	656	-	656
2. Utilities						
Direct Obligations-Utilities	-	4,222	-	4,166	-	4,166
Anticipated Reimbursements	-	-	-	-	-	-
Subtotal-Gross Obligations	-	4,222	-	4,166	-	4,166
3. Maintenance						
a. M&R Dwellings	-	-	-	-	-	-
b. M&R Exterior Utilities	-	-	-	-	-	-
c. M&R Other Real Property	-	-	-	-	-	-
d. Alterations & Additions	-	-	-	-	-	-
Direct Obligations-Maintenance	-	-	-	-	-	-
Anticipated Reimbursements	-	-	-	-	-	-
Subtotal-Gross Obligations	-	-	-	-	-	-
Total Direct Obligations	-	**4,855**	-	**4,822**	-	**4,822**
Anticipated Reimbursements	-	-	-	-	-	-
Total Gross Obligations	-	**4,855**	-	**4,822**	-	**4,822**

DEFENSE INTELLIGENCE AGENCY
Family Housing Operation and Maintenance, Defense-wide
Fiscal Year (FY) 2023 Budget Estimates

OPERATION AND MAINTENANCE

OP-5 Reconciliation of Increases and Decreases

Operations: The Family Housing Operations expenses for DIA furnishings includes the purchase, transportation, maintenance and repair of furniture and appliances for members of the DAS.

Utilities: The Family Housing Operations expenses for DIA utilities includes utility purchases for members of the DAS.

Operations-Furnishings:	**($000)**
1. FY 2022 President's Budget Request	**656**
2. FY 2022 Appropriated Amount	656
3. FY 2022 Current Estimate	656
4. Price Change	+14
5. Program Decrease: Slower life-cycle replacement of furniture due to longer durability than expected.	-14
6. FY 2023 Budget Request	**656**

Utilities:	**($000)**
1. FY 2022 President's Budget Request	**4,166**
2. FY 2022 Appropriated Amount	4,166
3. FY 2022 Current Estimate	4,166
4. Price Change	+87
5. Program Decrease: Supports lower projected costs due to lower unit turnover.	-87
6. FY 2023 Budget Request	**4,166**

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FAMILY HOUSING, DEFENSE-WIDE
Family Housing Operation and Maintenance, Defense-wide
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LEASING SUMMARY

The FY 2023 leasing request by agency is as follows:

	FY 2021 Actual		FY 2022 Estimate		FY 2023 Request	
	Total Cost ($000)	No. Units	Total Cost ($000)	No. Units	Total Cost ($000)	No. Units
National Security Agency						
Direct Obligations	12,336	255	13,387	263	13,306	261
Reimbursements	-	-	-	-	-	-
Gross Obligations	12,336	255	13,387	263	13,306	261
Defense Intelligence Agency						
Direct Obligations	36,481	712	31,430	712	31,849	735
Reimbursements	-	-	-	-	-	-
Gross Obligations	36,481	712	31,430	712	31,849	735
Total Program	48,817	967	44,817	975	45,155	996

Defense Agencies leases are located exclusively overseas, in many cases at remote locations where housing comparable to western standards is scarce or nonexistent. Leasing in areas where suitable housing is in short supply is very expensive which accounts for the fact that the bulk of the high cost leases are concentrated in the Defense Agencies. These lease units support both activities in classified locations and the DAS. Host government restrictions, security requirements, and safety and health improvements add additional costs to these leases in many locations. Detailed justification by agency is provided on the following pages.

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NATIONAL SECURITY AGENCY
Family Housing Operation and Maintenance, Defense-wide
Fiscal Year (FY) 2023 Budget Estimates

OPERATION AND MAINTENANCE
Analysis of Leased Units

	FY 2021			FY 2022			FY 2023		
Location	Units Auth.	Lease Months	Cost ($000)	Units Auth.	Lease Months	Cost ($000)	Units Auth.	Lease Months	Cost ($000)
Domestic Leases									
None									
Foreign Leases									
Special Crypto Activities	255	3,060	12,336	263	3,156	13,387	261	3,132	13,306
Total Foreign Lease	255	3,060	12,336	263	3,156	13,387	261	3,132	13,306
Grand Total	**255**	**3,060**	**12,336**	**263**	**3,156**	**13,387**	**261**	**3,132**	**13,306**

NATIONAL SECURITY AGENCY
Family Housing Operation and Maintenance, Defense-Wide
Fiscal Year (FY) 2023 Budget Estimates

OPERATION AND MAINTENANCE
Leasing

OP-5 Reconciliation of Increases and Decreases

Leasing: NSA's Budget Submission for the FY 2023 Family Housing Program funds government leases. These funds provide for all lease costs to include utilities, maintenance, and operations cost, and administrative and support services performed by the DoS under the ICASS.

Leasing:	**($000)**
1. FY 2022 President's Budget Request	**13,387**
2. FY 2022 Appropriated Amount	13,387
3. FY 2022 Current Estimate	13,387
4. Price Change	+281
5. Program Decrease: Slight decrease in leasing costs due to (1) a lower leased unit requirement in FY 2023 and (2) a reduced overall cost requirement determined by the results of a program review.	-362
6. FY 2023 Budget Request	**13,306**

DEFENSE INTELLIGENCE AGENCY
Family Housing Operation and Maintenance, Defense-wide
Fiscal Year (FY) 2023 Budget Estimates

OPERATION AND MAINTENANCE
Analysis of Leased Units

	FY 2021			FY 2022			FY 2023		
Location	Units Auth.	Lease Months	Cost ($000)	Units Auth.	Lease Months	Cost ($000)	Units Auth.	Lease Months	Cost ($000)
				Domestic Leases					
None									
				Foreign Leases					
Classified Locations*	712	8,544	36,481	712	8,544	31,430	735	8.820	31,849
Total Foreign Lease	712	8,544	38,852	712	8,544	31,430	735	8,820	31,849
Grand Total	**712**	**8,544**	**38,852**	**712**	**8,544**	**31,430**	**735**	**8,820**	**31,849**

*Due to the sensitive nature of this information, country detail, to include lease months, can be provided to the committee under separate cover.

Exhibit FH-4 Analysis of Leased Units

DEFENSE INTELLIGENCE AGENCY
Family Housing Operation and Maintenance, Defense-Wide
Fiscal Year (FY) 2023 Budget Estimates

OPERATION AND MAINTENANCE
Leasing

OP-5 Reconciliation of Increases and Decreases

Leasing: An important element of DIA's mission is the operation and management of the DAS for the DAOs located at U.S. embassies in capital cities around the world. The FY 2023 budget request for DIA includes funding associated with ICASS and leases costs for the DAS worldwide which include many in high cost areas.

Leasing:	**($000)**
1. FY 2022 President's Budget Request	**31,430**
2. FY 2022 Appropriated Amount	31,430
3. FY 2022 Current Estimate	31,430
4. Price Change	+660
5. Program Decrease: This decrease is due to the results of a program review of DAS staff worldwide and their associated family housing leasing costs. The funds requested in this budget only support those costs incurred by family housing leasing and do not include any additional ICASS costs.	-241
6. FY 2023 Budget Request	**31,849**

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DEPARTMENT OF DEFENSE
FAMILY HOUSING IMPROVEMENT FUND
Fiscal Year (FY) 2023 Budget Estimates

The FY 2023 Department of Defense (DoD) Family Housing Improvement Fund (FHIF) Administrative request is $6,442,000 to support administration of privatized family housing under the Military Housing Privatization Initiative (MHPI) Program as prescribed by the Federal Credit Reform Act of 1990.

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DEPARTMENT OF DEFENSE
FAMILY HOUSING IMPROVEMENT FUND
Fiscal Year (FY) 2023 Budget Estimates

PROGRAM SUMMARY
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
FY 2023 Budget Request	**4,837**	**6,081**	**6,442**

Program and Scope

DoD has privatized 99 percent (more than 200,000 units) of its family housing inventory in the United States, with 78 current projects executed under the MHPI, a federal credit program authorized by Congress in 1996. Under the MHPI, Military Departments conveyed their existing government family housing units to competitively selected privatization entities (i.e., the MHPI projects). The MHPI housing projects operate under long-term (typically 50-year) ground leases and associated legal agreements with a Military Department, with one 25-year option period. In return, the MHPI housing projects assumed responsibility for operation, maintenance, repair, construction, and replacement of the housing during the lease term, in accordance with the MHPI authorities as defined in Title 10, United States Code. Through the MHPI, DoD has achieved $32 billion in private development by leveraging just $4 billion in DoD investment. The resulting development rapidly eliminated nearly 142,000 inadequate homes and an associated $20 billion maintenance backlog.

DoD relies on the FHIF to accomplish MHPI family housing oversight and administration consistent with statutory requirements, congressional direction (e.g., the extensive new requirements set out in the FY 2020 National Defense Authorization Act (NDAA) (Public Law 116-92), and OMB Circular A-129 "Policies for Federal Credit Programs and Non-Tax Receivables". In particular, the requested funds are necessary for Office of the Assistant Secretary of Defense for Energy, Installations, and Environment (OASD (EI&E)) MHPI realty/financial advisory and associated consultant support, which is vital for protecting the Government's interests, assessing MHPI project financials and financial viability, and accounting of the MHPI FHIF program funds. The requested funds also provide critical support for the ASD (EI&E) to execute the statutorily defined Chief Housing Officer duties and responsibilities.

Program Summary

Congress authorized the MHPI in 1996 as a tool to help the DoD address the inadequate condition of on-base housing in the United States, as well as the shortage of quality, affordable community housing available to service members and their families. Under the MHPI authorities, the Military Departments select private developers to enter into agreements to own, operate, maintain and repair family housing or unaccompanied housing, including temporary lodging, in accordance with a long-term (typically 50-year) ground lease and associated legal agreements; and leverage private sector financing, expertise and innovation to revitalize and build new, quality on-

base housing faster and more efficiently than traditional Military Construction processes could allow. Privatized housing deals take advantage of the MHPI credit authorities (e.g., Federal direct loans, limited loan guarantees), necessitating continued and long-term DoD oversight and monitoring of the financial health (e.g., risk of loan default or financial restructuring) of each of the 78 family housing MHPI projects (as well as the 8 unaccompanied housing / temporary lodging MHPI projects), to include periodic modifications dependent on military force structure, local housing market changes, or the need to aid in housing recovery following a disaster.

The FY 2023 FHIF budget maintains the Department's commitment to its oversight role and supports our continued, long-term need for enhanced realty/financial advisory and associated consultant support. This support includes the monitoring of the financial health, financing, and accounting aspects of 78 financially complex MHPI family housing projects deal structures (e.g., project debt structures frequently involve the bond market and credit swaps).

DEPARTMENT OF DEFENSE
FAMILY HOUSING IMPROVEMENT FUND
Fiscal Year (FY) 2023 Budget Estimates

Reconciliation of Increases and Decreases

The FHIF budget request of $6,442 million will fund enhanced oversight of family housing privatized under the MHPI program, to include realty / financial advisory, and associated consultant support to the OASD (EI&E).

	($000)
1. FY 2022 President's Budget Request	**6,081**
2. Price Change	+128
3. Program Increase: Increases funding for the Department's oversight of MHPI family housing projects and execution of the statutorily defined responsibilities of the Chief Housing Officer, in support of the requirements set out in the FY 2020, FY 2021, and FY 2022 National Defense Authorization Acts.	+233
4. FY 2023 Budget Request	**6,442**

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DEPARTMENT OF DEFENSE
MILITARY UNACCOMPANIED HOUSING IMPROVEMENT FUND
Fiscal Year (FY) 2023 Budget Estimates

The FY 2023 Department of Defense (DoD) Military Unaccompanied Housing Improvement Fund (MUHIF) Administrative request is $494,000 to support enhanced oversight of unaccompanied housing (including temporary lodging) privatized under the MHPI Program as prescribed by the Federal Credit Reform Act of 1990.

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DEPARTMENT OF DEFENSE
MILITARY UNACCOMPANIED HOUSING IMPROVEMENT FUND
Fiscal Year (FY) 2023 Budget Estimates

PROGRAM SUMMARY
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
FY 2023 Budget Request	**1,301**	**494**	**494**

Program and Scope

DoD has privatized select unaccompanied housing units, including temporary lodging (i.e., hotel), on military installations in the United States under the MHPI, a federal credit program authorized by Congress in 1996, entering legal agreements that transferred ownership, maintenance, and operations of these housing assets to private partners/developers via long-term (typically 50-year) ground leases (with 25-year option periods).

DoD relies on the MUHIF to accomplish oversight, assessment, and administration of MHPI unaccompanied housing (including temporary lodging) consistent with statutory requirements, congressional direction (e.g., the extensive new requirements set out in the Fiscal Year 2020 NDAA (Public Law 116-92), and OMB Circular A-129 "Policies for Federal Credit Programs and Non-Tax Receivables". In particular, the requested funds are necessary for OASD (EI&E) realty/financial advisory and associated consultant support, which is vital for protecting the Government's interests, assessing MHPI project financials and financial viability, and accounting of MUHIF program funds. The requested funds also provide critical support for the ASD (EI&E) to execute the statutorily defined Chief Housing Officer duties and responsibilities).

Program Summary

Congress authorized the MHPI in 1996 as a tool to help the DoD address the inadequate condition of on-base housing in the United States, as well as the shortage of quality, affordable community housing available to service members and their families. Under the MHPI authorities, the Military Departments select private developers to enter into agreements to own, operate, maintain and repair family housing or unaccompanied housing, including temporary lodging, in accordance with a long-term (typically 50-year) ground lease and associated legal agreements; and leverage private sector financing, expertise and innovation to revitalize and build new, quality on-base housing faster and more efficiently than traditional Military Construction processes could allow. Privatized housing deals take advantage of MHPI credit authorities (e.g., Federal direct loans, limited loan guarantees), necessitating continued and long-term DoD oversight and monitoring of the financial health (e.g., risk of loan default or financial restructuring) of each of the 7 unaccompanied housing MHPI projects and 1 temporary lodging MHPI project (as well as the 78 family housing MHPI projects), to include periodic modifications dependent on military force structure, local housing market changes, or the need to aid in housing recovery following a natural disaster.

DEPARTMENT OF DEFENSE
MILITARY UNACCOMPANIED HOUSING IMPROVEMENT FUND
Fiscal Year (FY) 2023 Budget Estimates

The FY 2023 MUHIF budget request maintains the Department's commitment to its oversight role and supports our need for enhanced realty / financial advisory and associated consultant support. This support includes the monitoring of the financial and accounting aspects of 8 financially complex MHPI unaccompanied housing/temporary lodging project deal structures (e.g., project debt structures frequently involve the bond market and credit swaps).

DEPARTMENT OF DEFENSE
MILITARY UNACCOMPANIED HOUSING IMPROVEMENT FUND
Fiscal Year (FY) 2023 Budget Estimates

Reconciliation of Increases and Decreases

The MUHIF budget request will fund enhanced oversight of unaccompanied housing (including temporary lodging) privatized under the MHPI program, to include realty / financial advisory and associated consultant support to the OASD (EI&E).

	($000)
1. FY 2022 President's Budget Request	**494**
2. Price Change	+10
3. Program Decrease: Decreased funding after a review of program execution and current requirements. Maintains the Department's commitment to the oversight of unaccompanied housing and temporary lodging privatized under the MHPI program.	-10
4. FY 2023 Budget Request	**494**

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