Defense Logistics Agency
FY 2022 Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Japan				
Kadena Air Base				
Truck Unload Facilities	-	22,300	C	47
Operations Support Facility	24,000	24,000	C	50
Misawa Air Base				
Additive Injection Pump and Storage System	6,000	6,000	C	54
Marine Corps Air Station, Iwakuni				
Fuel Pier	-	57,700	C	58
Total	**30,000**	**110,000**		

1. COMPONENT	FY 2022 MILITARY CONSTRUCTION PROGRAM	2. DATE
DEFENSE (DLA)		MAY 2021

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
KADENA AIR BASE, OKINAWA, JAPAN	DEFENSE LOGISTICS AGENCY	2.00

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	0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	46,300.00
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	
f. PLANNED IN NEXT THREE PROGRAM YEARS	0.00
g. REMAINING DEFICIENCY	0.00
h. GRAND TOTAL	46,300.00

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
129629	Truck Unload Facilities	8 OL	22,300	FEB 2017	APR 2020
610100	Operations Support Facility	16,594 SF	24,000	MAR 2019	MAY 2021

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

As the host unit at Kadena Air Base, the mission of the 18th Wing is to deliver unmatched combat airpower and a forward-staging base to provide sovereign options that promote peace and stability in the Asia-Pacific region, ensure the common defense of our allies, and enhance the United States' unparalleled global engagement capability. Multiple aircraft utilize the air base including F-15, KC-135, HH-60, E-3, C-130 and RC-135 airframes.

DLA Energy Okinawa provides bulk petroleum support to U.S. military and other Department of Defense agencies on the island of Okinawa. DLA Energy provides effective and efficient support to customers with Class IIIB (logistics forecasting; bulk fuel, which includes gasoline, diesel, and aviation fuel) expertise in operations, maintenance, inventory management, and quality surveillance. DLA Energy receives fuels, conducts extensive testing to ensure the quality of fuels, and distributes the product to Kadena AB and other active military bases across Okinawa.
Deferred sustainment, restoration and modernization for DLA 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 2022 MILITARY CONSTRUCTION PROJECT DATA**	2. Date MAY 2021

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
KADENA AIR BASE, OKINAWA, JAPAN	TRUCK UNLOAD FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0701111S	126926	DESC1911	22,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST
PRIMARY FACILITIES				**$ 11,361**
TRUCK OFFLOAD FACILITY (CC 126926)	OL	8	$ 1,272,250.00	$ 10,178
ELECTRICAL/GENERATOR BUILDING (CC 126926)	SF	820	$ 1,442.68	$ 1,183
SUPPORTING FACILITIES				**$ 8,397**
ADDITIVE INJECTOR SYSTEM	LS			$ 4,859
SITE IMPROVEMENTS	LS			$ 1,981
UTILITIES	LS			$ 1,002
DEMOLITION	LS			$ 555
SUBTOTAL				**$ 19,758**
CONTINGENCY (5.00%)				$ 988
TOTAL CONTRACT COST				**$ 20,746**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH)			6.50%	$ 1,348
ENGINEERING DESIGN DURING CONSTRUCTION				$ 157
TOTAL REQUEST				**$ 22,251**
TOTAL REQUEST (ROUNDED)				$ 22,300
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				**$ 513**

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct a four-position fuel truck offload facility with additive injection system at both Kadena Tank Farm (KTF) and Seido Tank Farm. Each truck offload skid shall have three offload connections to facilitate simultaneous offload of multi-compartment trucks. Each skid will be capable of offloading a commercial tanker truck at a flowrate of 300-gpm for a total of 1200-gpm receipt into bulk storage tanks. Provide skid mounted mechanical equipment including a bulk air eliminator, vertical in-line API 610 pump, temperature compensated flow meter, flow control valves, manual isolation valves, pressure gauges and thermal relief valves and piping. Electrical controls at each offload station shall include self- monitoring ground verification units, flow switches, pump controls, emergency fuel shutoff (EFSO) stations, and instrumentation. The truck offloads include grounding, canopies, lightning protection, containment systems, new underground piping, valves, fittings, cathodic protection, and other supporting appurtenances from the offload facility to the existing manifold and filtration system.

The electrical/generator building includes an adjacent, covered generator with enclosure for both KTF and STF locations. The electrical/generator buildings will house the new backup generator with transfer switches, electrical control systems, communications, switchboards and other supporting electrical and cyber-security equipment at each site. The electrical building will contain emergency eyewash/shower and be outfitted with HVAC, lighting, grounding, lightning protection, fire alarm panels, and utility connections.

1. COMPONENT DEFENSE (DLA)	**FY 2022 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MAY 2021
3. INSTALLATION AND LOCATION KADENA AIR BASE, OKINAWA, JAPAN		4. PROJECT TITLE: TRUCK UNLOAD FACILITIES	
5. PROGRAM ELEMENT 0701111S	6. CATEGORY CODE 126926	7. PROJECT NUMBER DESC1911	8. PROJECT COST ($000) 22,300

Supporting site improvements include all grading, paving, walks, concrete containment, valve pit modifications, emergency eyewash stations, access roadways/pavements, crossover stairs, platforms, fencing, & gates, parking bumpers, bollards, seeding and related site improvements.

Provide an additive injection system to mechanically inject Fuel System Icing Inhibitor (FSll), Corrosion Inhibitor/Lubricity Improver (CI/LI), and Static Dissipater Additive (SDA) to convert Jet A-1 to military specification JP-8 fuel. The system includes steel single-wall, horizontal additive storage tanks with all appurtenances and secondary containment per UFC including DWCF funded automatic tank gauging (ATG) system with the ability to communicate back to the existing ops building. Provide and size injector facilities to meet both pipeline receipt and truck offload receipt maximum and minimum flowrates with a bypass line for receipt of JP-8 fuel not requiring additives. Provide aboveground stainless steel additive supply piping between the additive tanks and the injector with pipe support structures, additive offload pumps for filling of the additive tanks from delivery containers such as iso-tanks, totes or barrels; all pumps, piping, supports, valves, mixers and related injectors and equipment. Provide general spill containment system for the additive offload area. Tank spacing and setbacks shall be in accordance with the requirements of UFC and NFPA.

Utilities work includes site water, fire protection, sanitary, storm drainage, low impact development features, roadway and entrance pavement work, and electrical primary and secondary power, pad mounted transformers, duct banks, emergency fuel shutoff stations, site lighting, grounding, tank gauging communications, cathodic protection, all connections and related work.

Demolition and site preparation include demolition of building 1230 (344 SF) at KTF, demolition and rerouting of underground utilities and storm drainage, pavement and walk demolition, clearing and grading, erosion and sediment control features, UXO surveys, and related work.

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11. REQUIREMENT: 8 Outlets (OL) **ADQT:** 0 OL **SUBSTD:** 8 OL

PROJECT: Truck Unload Facilities (C)

REQUIREMENT: An alternate means to resupply fuel along with the ability to convert Jet A1 fuel to military specification JP-8 fuel. With the DLA Energy procurement initiative to begin purchasing Jet A1, bases will no longer receive military spec JP-8 fuel. The requirement for FSII, CI/LI, and SDA additives is mandatory to support current mission operations for Kadena Air Base.

This project will provide Kadena AB the necessary resiliency by establishing additional transfer nodes to ensure adequate fuel supply in case of emergency pipeline downtime. This project will conform to anti-terrorism/force protection (ATFP) standards, LEED, and Federal Energy Acts compliance criteria for design, development, and construction of the project.

CURRENT SITUATION: Kadena AB receives jet turbine fuel by cross-island pipeline. The Air Base lacks an alternative receipt mode for jet fuel delivery in the event these lines are broken or taken out of service and may be exacerbated during contingency or emergency situations when the number of flights and missions drastically increase.

1. COMPONENT DEFENSE (DLA)	**FY 2022 MILITARY CONSTRUCTION PROJECT DATA**	2. Date MAY 2021

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
KADENA AIR BASE, OKINAWA, JAPAN	TRUCK UNLOAD FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0701111S	126926	DESC1911	22,300

The bulk truck offload systems described in this document will provide interim / back-up resupply capability with sufficient capacity to replenish average daily requirement and meet contingency operation requirements.

IMPACT IF NOT PROVIDED: Without this project, Kadena AB will lack fuel supply redundancy and will not meet the required resiliency required by UFC and AFI standards. Further there will be reduced capability to support the flying mission in the Pacific and intra-theatre areas of responsibility. The availability of JP-8 in the Pacific region impacts the ability to deliver fuel to the warfighting effort quickly.

ADDITIONAL: The economic analysis supports this initiative to convert Jet A1 to JP-8. Since JP-8 is strictly used by the US DoD, it is more expensive and difficult to procure outside of the continental US. Both cost and availability considerations make the conversion from JP-8 to Jet A1 with additives more economical and efficient for DLA.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design/Bid/Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	FEB 2017
(b) Percent of Design Completed as of January 2021:	100%
(c) Design or RFP Complete:	APR 2020
(d) Total Design Cost ($000):	1,085
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used:	No
(3) Construction Data:	
(a) Contract Award:	JAN 2022
(b) Construction Start:	FEB 2022
(c) Construction Complete:	FEB 2024

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	2023	513

C. Authorization and Appropriation Summary:

	Authorization ($000)	Auth of Approp ($000)	Approp ($000)
FY 2019 Enacted	21,400	21,400	21,400
Reallocated to 10 USC 2808 projects	------	------	(21,400)
Cost Variation	900	------	------
FY 2022 Request	0	22,300	22,300
Total	22,300		22,300

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

1. COMPONENT DEFENSE (DLA)	**FY 2022 MILITARY CONSTRUCTION PROJECT DATA**	2. Date MAY 2021

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
CHIBANA COMPOUND KADENA AIR BASE, OKINAWA, JAPAN	OPERATIONS SUPPORT FACILITIY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0702976S	121111	DESC21E1	24,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST
PRIMARY FACILITIES				**$ 17,197**
PETROLEUM OPERATIONS SUPPORT FACILITY (CC 121111)	SF	16,594	$ 930.22	$ 15,436
GUARD GATE BUILDING (CC 730839)	SF	200	$ 4,330.00	$ 866
SPECIAL COSTS	LS			$ 895
				$ -
SUPPORTING FACILITIES				**$ 4,057**
SITE ELECTRICAL UTILITIES	LS			$ 1,163
DEMOLITION	LS			$ 1,119
SITE IMPROVEMENTS	LS			$ 971
SITE PREPARATION	LS			$ 415
SITE CIVIL WORK	LS			$ 389
SUBTOTAL				**$ 21,254**
CONTINGENCY (5.00%)				$ 1,063
TOTAL CONTRACT COST				**$ 22,317**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH)			6.50%	$ 1,451
ENGINEERING DESIGN DURING CONSTRUCTION				$ 147
TOTAL REQUEST				**$ 23,915**
TOTAL REQUEST (ROUNDED)				$ 24,000
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				**$ 588**

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct a new DLA Energy fuels operations support building to consolidate personnel within the existing Chibana Compound. With the exception of the DLA Energy Technicians Laboratory staff in building 53140, the new building will accommodate the DLA Energy staff of 50 personnel. The facility will provide a 24/7 control room for automated fuel handling equipment, administrative and training spaces, a command suite with SIPRNet space including all security requirements capable of sharing secured information to Host Nation partners. The facility includes emergency backup power to areas operating 24/7. The facility includes conference rooms, kitchen/break room/vending, restrooms, locker rooms, storage spaces and related support spaces. The project includes radon mitigation system, fire sprinklers, fire detection and alarm system, mass communications, electronic security system, plumbing, HVAC, electrical work, telecom and communications work.

The guard gate building includes restroom, plumbing, HVAC systems. A temporary guard house and access control point for use during construction, entry gate upgrades including motorized sliding gates, swing gates, pedestrian gates, fencing, active & passive barriers and emergency backup power are included.

1. COMPONENT DEFENSE (DLA)	FY 2022 MILITARY CONSTRUCTION PROJECT DATA		2. Date MAY 2021
3. INSTALLATION AND LOCATION CHIBANA COMPOUND KADENA AIR BASE, OKINAWA, JAPAN		4. PROJECT TITLE: OPERATIONS SUPPORT FACILITIY	
5. PROGRAM ELEMENT 0702976S	6. CATEGORY CODE 121111	7. PROJECT NUMBER DESC21E1	8. PROJECT COST ($000) 24,000

Special costs include special foundations, information systems, and sustainable features.

Demolition includes removal of existing administrative Buildings 53110 (1,000 SF, BCI 63), 53117 (1,580 SF, BCI 60), 53125 (1,000 SF, BCI 64), and 53115 Wings A, B, C and Control Wing (9,880 SF, BCI 60), existing guard house, and miscellaneous site items and utilities. The work includes removal and disposal of hazardous materials including asbestos, lead based paint, mercury containing lamps and switches.

Electrical work includes site electrical and lighting, and related work.

Site improvements include widening of vehicular access and new pavements, parking for GOV and private vehicles, concrete walks, curb and gutter, landscaping and related work.

Civil site work includes water, fire water, sanitary and storm water systems, and related work.

11. REQUIREMENT: 16,600 SF **ADQT:** 0 SF **SUBSTD:** 21,200 SF

PROJECT: New Operations Support Building at Chibana Compound (C)

REQUIREMENT: Construct a new building to consolidate DLA Energy employees in a single facility to replace existing failing facilities at Chibana Compound in Okinawa Japan. The facility shall comply with antiterrorism force protection, security, current building and seismic codes. The new facility requires a 24/7 automated fuel handling control room, training and support spaces along with SIPR access.

CURRENT SITUATION: DLA Energy assumed management of US Army 505th Quartermaster Battalion facilities and fuels related assets on Okinawa in 2013. The group occupies buildings at the Chibana Compound that were converted from dormitory use over 20 years ago. The buildings have since exceeded their service life and several have structural deficiencies to the extent they were rendered uninhabitable. Several of the buildings have been vacated due to failing of cement roof decks or inadequate structural elements. According to a 2015 Kadena Civil Engineer Group Facility BUILDERS Assessment, all buildings in questions had a Building Condition Index (BCI) of 70 or less indicating the need for significant repairs. Additionally, a 2018 structural field report concluded that Building 53110, 53115 Wing A, and 53117 face imminent failure under either a seismic or high wind event.

Renovations if accomplished would require varying levels of seismic upgrades ranging from significant to extensive (repair by replacement). In addition, the repairs would not provide buildings with the current functionality necessary to support DLA Energy's current or future mission requirements for training space and SIPRNet. Furthermore, the location of many of the existing buildings (including critical facilities/functions) does not provide adequate set back from the secured perimeter to comply with current AT requirements. Additionally the current layout and building spaces are inefficient and non-functional.

IMPACT IF NOT PROVIDED: Without the construction of the new building, DLA Energy will continue to operate in substandard buildings in varying states of disrepair and under threat of imminent failure. Chibana Compound will continue to deteriorate over time and any untimely catastrophic building failures will cause disruptions, mission impact, and substantially increase repair costs. Renovations cost will exceed 75% of

1. COMPONENT DEFENSE (DLA)	**FY 2022 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MAY 2021
3. INSTALLATION AND LOCATION CHIBANA COMPOUND KADENA AIR BASE, OKINAWA, JAPAN		4. PROJECT TITLE: OPERATIONS SUPPORT FACILITIY	
5. PROGRAM ELEMENT 0702976S	6. CATEGORY CODE 121111	7. PROJECT NUMBER DESC21E1	8. PROJECT COST ($000) 24,000

PRV for three of the four facilities. Renovations cannot meet the need for Antiterrorism and Force Protection requirements, SIPRNet, and training space.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design/Bid/Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	MAR 2019
(b) Percent of Design Completed as of January 2021:	65%
(c) Design or RFP Complete:	MAY 2021
(d) Total Design Cost ($000):	232
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used:	No
(3) Construction Data:	
(a) Contract Award:	MAR 2022
(b) Construction Start:	APR 2022
(c) Construction Complete:	MAY 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

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

1. COMPONENT	FY 2022 MILITARY CONSTRUCTION PROGRAM	2. DATE
DEFENSE (DLA)		MAY 2021

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
MISAWA AIR BASE, JAPAN	DEFENSE LOGISTICS AGENCY	2.26

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	0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	6,000.00
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	6,000.00

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
124128	Additive Injection Pump and Storage System	1 EA	6,000	AUG 2019	APR 2021

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

The mission of the 35th Fighter Wing is to "provide worldwide deployable forces, protect U.S. interests in the Pacific and defend Japan with sustained forward presence and focused mission support." The wing operates and maintains two squadrons of F-16CM (C and D models) Block 50 Fighting Falcons. The pilots of the 13th and 14th Fighter Squadrons conduct daily flight training including air-to-air tactics over water and air-to-ground weapons delivery at Draughon Range. In addition to daily air combat training, the 35th Fighter Wing holds quarterly operational readiness exercises, which keep Misawa Airmen ready to execute their mission at home or abroad. The wing maintains readiness with participation in Pacific Air Forces (PACAF) sponsored exercise like RED FLAG-Alaska and DISTANT FRONTIER and participates in joint and bilateral exercises such as COPE NORTH and KEEN SWORD to maintain combat readiness of U.S. and allied forces.

Deferred sustainment, restoration and modernization for DLA 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

DD form 1390, JUL 1999

1. COMPONENT DEFENSE (DLA)	**FY 2022 MILITARY CONSTRUCTION PROJECT DATA**	2. Date MAY 2021

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
MISAWA AIR BASE, JAPAN	ADDITIVE INJECTION PUMP AND STORAGE SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0701111S	125977	DESC20UX	6,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST
PRIMARY FACILITIES				**$ 3,919**
ADDITIVE INJECTION PUMP AND STORAGE SYSTEM (CC 125977)	EA	1	$ 2,776,000	$ 2,776
BUILDING ADDITION & MODIFICATION (CC 121124)	SF	98	$ 7,755	$ 760
SUSTAINMENT AND CYBERSECURITY MEASURES	LS	200	$ 1,915.00	$ 383
				$ -
SUPPORTING FACILITIES				**$ 1,254**
SITE IMPROVEMENTS	LS			$ 437
ELECTRICAL UTILITIES	LS			$ 398
SITE PREPARATION	LS			$ 238
MECHANICAL UTILITIES	LS			$ 181
SUBTOTAL				**$ 5,173**
CONTINGENCY (5.00%)				$ 259
TOTAL CONTRACT COST				**$ 5,432**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH)			6.50%	$ 353
ENGINEERING DESIGN DURING CONSTRUCTION				$ 168
TOTAL REQUEST				**$ 5,953**
TOTAL REQUEST (ROUNDED)				$ 6,000
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				**$ 225**

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct storage tanks and modify existing filter building to accommodate pump and mixing tanks to allow injection of fuel additives to convert Jet A-1 type fuel to military specification JP-8 fuel.

The additive injection system includes two 15,000-gallon Fuel System Icing Inhibitor (FSll) storage tanks, one 550-gallon Corrosion Inhibitor/Lubricity Improver (CI/LI) storage tank and one 75-gallon Static Dissipater Additive (SDA) storage tank. The storage tanks will be above ground, double-wall stainless steel tanks on concrete pads. The system also includes transfer pumps, injectors and mixing tanks located within an existing filter building and stainless steel piping that will convey additives from the additive storage tanks to the mixing tanks along with return lines to storage. Provide Automatic Tank Gauging (ATG) system for the tanks.

Provide an addition to the existing Fuel Filter Building 1150 to house electrical equipment and a fire protection sprinkler riser. Modify equipment layout in the existing building to accommodate new mixing tanks, two hydraulic injectors, piping, containment curbing, new doors, a heated emergency eyewash and shower and new sprinkler system. Provide new and modify existing piping to allow additive injection when receiving fuel from either the truck offload facility or from the Hachinohe pipeline. Provide lightning protection for the building addition.

1. COMPONENT DEFENSE (DLA)	**FY 2022 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MAY 2021
3. INSTALLATION AND LOCATION MISAWA AIR BASE, JAPAN		4. PROJECT TITLE: ADDITIVE INJECTION PUMP AND STORAGE SYSTEM	
5. PROGRAM ELEMENT 0701111S	6. CATEGORY CODE 125977	7. PROJECT NUMBER DESC20UX	8. PROJECT COST ($000) 6,000

SUPPORTING FACILITIES:
Site improvements include a truck offload pad, containment curbs, a remote spill containment basin, additive transfer equipment pad, asphalt-concrete roadways, pavements and landscaping.

Electrical utilities include primary electrical power distribution, secondary power distribution, transformers, exterior area lighting, grounding, and telecommunications distribution.

Site preparation includes clearing and grubbing, earthwork, and site demolition. Mechanical utilities include a new water line to the fire protection sprinkler system, a tempered water service lateral connection for the emergency eyewash and shower at Building 1150, and a wash water holding tank for drainage from the eyewash and shower.

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: 1 EA **ADQT:** 0 EA **SUBSTD:** 00,000 EA

PROJECT: Construct outdoor additive storage tanks on concrete pad and make modifications to Building 1150 to accommodate pumps, mixers and mixing tanks to modify fuel for military jet use (C)

REQUIREMENT: An Additive Injection System is required to provide the Base with the capability to receive commercial Jet A-1 in compliance with new Defense Logistics Agency (DLA) Energy fuel acquisition strategy. This strategy allows the purchase of the more common and commercially available Jet A-1 aviation fuel. To meet military specifications for JP-8, Jet A-1 must be additized with correct ratios of FSll, Cl/LI, and SDA. The system must have adequate on-site storage capacity for each additive based on the fuel throughput at the installation.

CURRENT SITUATION: Misawa Air Base is supported by off-site fuel storage at DFSP Hachinohe. Fuel is pumped from the fuel terminal to the base via two 4-inch pipelines at a flow rate of approximately 330 gallons per minute (gpm). The pipeline enters Tank Farm 2 where it is piped through receipt filtration in Building 1150 and then distributed to the bulk fuel storage tanks. The secondary mode of fuel receipt is from a truck receipt station at Tank Farm 2. The truck receipt header is piped to the receipt Filter Building 1150 prior to filling tanks, making Filter Building 1150 the ideal location for additive injection.

IMPACT IF NOT PROVIDED: DLA Energy has initiated a fuel acquisition conversion for the Pacific region to switch from purchasing JP-8 fuel directly from the in-country refineries to the more common and commercially available Jet A-1 aviation fuel. This fuel acquisition initiative will require the end user bases to add the required additives to the Jet A-1 at receipt points to meet the JP-8 fuel military specifications. Without the additive injection system Misawa Air Base will be unable to support current mission operations.

ADDITIONAL: Sustainable engineering principles will be integrated into the design, development, and construction of the project in accordance with the Energy Policy Act 2005, Executive Orders, Unified Facilities Criteria, and other applicable laws. The project will comply with all applicable DoD and

1. COMPONENT DEFENSE (DLA)	**FY 2022 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MAY 2021
3. INSTALLATION AND LOCATION MISAWA AIR BASE, JAPAN		4. PROJECT TITLE: ADDITIVE INJECTION PUMP AND STORAGE SYSTEM	
5. PROGRAM ELEMENT 0701111S	6. CATEGORY CODE 125977	7. PROJECT NUMBER DESC20UX	8. PROJECT COST ($000) 6,000

commercial criteria and the Japan Environmental Governing Standards. The project will comply with Air Force and DLA requirements for control systems and utility networking planning and design requirements for the Authority to Operate (ATO) process. The Headquarters U.S. Forces Japan, Sub-Area Petroleum Officer has advocated and validated the project's requirement.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design/Bid/Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	AUG 2019
(b) Percent of Design Completed as of January 2021:	65%
(c) Design or RFP Complete:	APR 2021
(d) Total Design Cost ($000):	1,583
(e) Energy Study and/or Life Cycle Analysis performed:	No
(f) Standard or definitive design used:	No
(3) Construction Data:	
(a) Contract Award:	JAN 2022
(b) Construction Start:	FEB 2022
(c) Construction Complete:	MAY 2023

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 System	DWCF	2022	225

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

1. COMPONENT	FY 2022 MILITARY CONSTRUCTION PROGRAM	2. DATE
DEFENSE (DLA)		MAY 2021

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
MARINE CORPS AIR STATION, IWAKUNI, JAPAN	DEFENSE LOGISTICS AGENCY	2.23

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	0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	57,700.00
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	
f. PLANNED IN NEXT THREE PROGRAM YEARS	
g. REMAINING DEFICIENCY	0.00
h. GRAND TOTAL	57,700.00

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
151	FUEL PIER	600 SY	57,700	MAY 2017	AUG 2018

9. FUTURE PROJECTS

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.

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 DLA 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 2022 MILITARY CONSTRUCTION PROJECT DATA**	2. Date MAY 2021

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
MARINE CORPS AIR STATION, IWAKUNI, JAPAN	FUEL PIER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0701111S	15140	DESC1903	57,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST
PRIMARY FACILITIES				**$ 48,531**
OFFLOADING PLATFORM (CC 15140)	SY	600	$ 49,302	$ 29,581
BREASTING & MOORING DOLPHINS (CC 16310)	EA	6	$ 2,499,500	$ 14,997
CONTROL BUILDING (CC 89009)	SF	210	$ 4,267	$ 896
SPECIAL COSTS	LS	0	$ -	$ 3,057
				$ -
SUPPORTING FACILITIES				**$ 3,049**
SITE IMPROVEMENTS	LS			$ 1,546
ELECTRICAL & COMMUNICATIONS	LS			$ 921
MECHANICAL PIPING & UTILITIES	LS			$ 566
DEMOLITION	LS			$ 16
SUBTOTAL				**$ 51,580**
CONTINGENCY (5.00%)				$ 2,579
TOTAL CONTRACT COST				**$ 54,159**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH)			6.50%	$ 3,520
ENGINEERING DESIGN DURING CONSTRUCTION				$ -
TOTAL REQUEST				**$ 57,679**
TOTAL REQUEST (ROUNDED)				**$ 57,700**
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				**$ 415**

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a pile supported concrete offload fuel platform to accommodate medium sized (235 MBBL) tankers. The offload platform will be equipped with fuel piping, four marine arms, stripping pumps, containment curbs, lighting, water and foam fire protection system with standpipes, foam hose reels, hose cabinets, manual and remote controlled foam monitors. All fuel piping, valves and equipment with supports will be included.

The project includes two berthing dolphins and four mooring dolphins. The dolphins will consist of coated steel piles supporting a concrete cap with a deepened fascia for mounting the fenders and vessel fender system. The dolphins will include an upper level cap or platform with room for access walkways, ladders, and mooring bollards.

The control building will house electrical controls for a fuel pier control system and offload monitoring, storage and mechanical/electrical spaces, hose bibs, telecomm cabinet, transformer, alarms & annunciator, lighting protection, emergency shutoffs, and related improvements.

Special costs include dredging.

1. COMPONENT DEFENSE (DLA)	**FY 2022 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MAY 2021
3. INSTALLATION AND LOCATION MARINE CORPS AIR STATION, IWAKUNI, JAPAN		4. PROJECT TITLE: FUEL PIER	
5. PROGRAM ELEMENT 0701111S	6. CATEGORY CODE 15140	7. PROJECT NUMBER DESC1903	8. PROJECT COST ($000) 57,700

Site improvements include emergency eyewash and shower, bollards, ladders, stairs, light pole foundations, stairs, walkways & gangways for access from platform to breasting dolphins, pipe bridges and related items.

Mechanical work includes expansion loops for firewater and foam supply pipes, water piping, valves, drains, pipe supports and related mechanical items.

Electrical work includes all grounding, conduits, handholes, primary power, transformers, telecom, site lighting, and cameras to remotely monitor the offload platform.

Demolition includes removal of pavements, guardrails, piping, and related work.

11. REQUIREMENT: 600 SQUARE YARD (SY) **ADQT:** 0 SY **SUBSTD:** 0 SY

PROJECT: Construct fuel offloading pier. (C)

REQUIREMENT: MCAS Iwakuni has a bulk fuel storage facility with JP-5 storage capacity of 310 MBBLs. The mission of MCAS Iwakuni includes support of operations, maintenance, and supply of tenant units and ships. Additional jet fuel storage capacity is needed at this location to support strategic en-route refueling operations, strategic airlift, and force projection in the Pacific. Bulk tanks will store reserve jet fuel required to sustain contingency operations, pending resupply by tanker ships. This project complements the addition of 400 MBBL storing capacity by other DLA projects and one 100 MBBL tank that will be built by the Government of Japan under the DPRI program. This project will permit the unloading of medium size (235 MBBL) tankers allowing more economical fuel resupply while reducing the number of resupply cycles that support the Air Station's requirements.

CURRENT SITUATION: The present fuel pier is limited to T-1 tankers and/or small intercoastal barges with capacity of around 500,000 gallons. Overall quantities of JP-5 from commercial sources are limited and impact operational requirements. With new storage currently being constructed under companion DLA projects, resupply by T-1 tankers will continue to be limited by both capacity and availability of T-1 tankers in the Pacific/Worldwide markets. Contingency operations are not sustainable without this added capability.

IMPACT IF NOT PROVIDED: MCAS Iwakuni will continue to function with the current T-1 tanker/intercoastal barge limitations that fail to meet full resupply capability to maintain contingency operational requirements.

ADDITIONAL: The co-sponsored DESC/PACOM Storage and Distribution Business Case Analysis recommended reconfiguring/modifying the current fuel pier to accept medium size tankers, as well as retaining the capability for T-1 tankers and intercoastal barges for flexibility in scheduling strategic petroleum resupply. The capability for offloading medium size tankers will mitigate the Pacific/Worldwide availability shortage of T-1 tankers, as well as reducing the frequency of resupply. Since the existing pier has limited capacity, construction of a new pier is the only feasible alternative to satisfy the requirement. Because this project increases operational capabilities, and hence offensive capability, it does not qualify for funding by the Japanese Facilities Improvement Program (JFIP). This project meets all applicable DoD criteria. Host Nation funding was sought for this project but denied.

1. COMPONENT DEFENSE (DLA)	**FY 2022 MILITARY CONSTRUCTION PROJECT DATA**		2. Date MAY 2021
3. INSTALLATION AND LOCATION MARINE CORPS AIR STATION, IWAKUNI, JAPAN		4. PROJECT TITLE: FUEL PIER	
5. PROGRAM ELEMENT 0701111S	6. CATEGORY CODE 15140	7. PROJECT NUMBER DESC1903	8. PROJECT COST ($000) 57,700

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design/Bid/Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	FEB 2017
(b) Percent of Design Completed as of January 2021:	100%
(c) Design or RFP Complete:	AUG 2018
(d) Total Design Cost ($000):	1,200
(e) Energy Study and/or Life Cycle Analysis performed:	No
(f) Standard or definitive design used:	No
(3) Construction Data:	
(a) Contract Award:	FEB 2022
(b) Construction Start:	MAR 2022
(c) Construction Complete:	MAR 2025

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

Equipment Nomenclature	Procuring Appropriation	FY Appropriated of Requested	Cost ($000)
OIL SPILL BOOM & REEL	DWCF	Future Request	275
SPILL RESPONSE EQUIPMENT	DWCF	Future Request	55
CCTV	DWCF	Future Request	8
HOSE REELS & HOSE CABINETS	DWCF	Future Reqiest	77

C. Authorization and Appropriation Summary:

	Authorization ($000)	Auth of Approp ($000)	Approp ($000)
FY 2019 Enacted	33,200	33,200	33,200
Reallocated to 10 USC 2808 projects	------	------	(33,200)
Cost Variation	24,500	------	------
FY 2022 Request	0	57,700	57,700
Total	57,700		57,700

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