

**Defense Logistics Agency
FY 2021 Military Construction, Defense-Wide
(\$ in Thousands)**

<u>State/Installation/Project</u>	<u>Authorization Request</u>	<u>Approp. Request</u>	<u>New/ Current Mission</u>	<u>Page No.</u>
Alabama				
Anniston Army Depot Demilitarization Facility	18,000	18,000	C	32
California				
Beale Air Force Base Bulk Fuel Tank	22,800	22,800	C	37
Ohio				
Wright Patterson Air Force Base Hydrant Fuel System	23,500	23,500	C	41
Texas				
Fort Hood Fuel Facilities	32,700	32,700	C	45
Washington				
Defense Fuel Supply Point Manchester Bulk Fuel Storage Tanks PH1	82,000	82,000	C	50
Joint Base Lewis-McChord Fuel Facilities (Lewis North)	10,900	10,900	C	54
Fuel Facilities (Lewis Main)	10,900	10,900	C	57
Japan				
Defense Fuel Supply Point Tsurumi Fuel Wharf	49,500	49,500	C	61
Total	250,300	250,300		

1. COMPONENT DEFENSE (DLA)		FY 2021 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYY MMDD) FEBRUARY 2020					
3. INSTALLATION AND LOCATION ANNISTON ARMY DEPOT, ANNISTON, ALABAMA			4. COMMAND DEFENSE LOGISTICS AGENCY			5. AREA CONSTRUCTION COST INDEX 0.83					
6. PERSONNEL		(1) PERMANENT		(2) STUDENTS			(3) SUPPORTED		(4) TOTAL		
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER		ENLISTED	CIVILIAN
b. AS OF YYYYMMDD											0
b. END FY											0
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE (acre)										0.00	
b. INVENTORY TOTAL AS OF YYYYMMDD										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										21,000.00	
g. REMAINING DEFICIENCY										0.00	
h. GRAND TOTAL										39,000.00	
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			
215	DEMLITARIZATION FACILITY			43,744 SF		18,000	MAR 2018	SEP 2020			
9. FUTURE PROJECTS											
441	GENERAL PURPOSE WAREHOUSE			75,000 SF		21,000	DEC 2020	SEP 2022			
10. MISSION OR MAJOR FUNCTIONS											
<p>Defense Logistics Agency (DLA) Disposition Services supports the Warfighter and protects the public by providing worldwide reverse logistics solutions. They dispose of excess DoD personal property, foreign excess personal property (FEPP), scrap, hazardous waste, and demil required property. The DLA Disposition Services at Anniston Army Depot is a cross-dock operation that collects and separates excess federal property into useable and unusable items. Useable items are entered into a database which is accessible to other Agencies, both at the Federal and State/Local levels. In addition to collection and sales, operations at Anniston Army Depot include de-milling of military-specific items which cannot be reused.</p> <p>Deferred sustainment, restoration and modernization for Disposition facilities at this location is \$0.</p>											
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 2021 MILITARY CONSTRUCTION PROJECT DATA			2. Date FEBRUARY 2020	
3. Installation and Location ANNISTON ARMY DEPOT, ANNISTON, ALABAMA		4. Project Title DEMILITARIZATION FACILITY			
5. Program Element 072976S	6. Category Code 21512	7. Project Number DRMS2101	8. Project Cost (\$000) 18,000		
9. COST ESTIMATES					
	Item	U/M	Quantity	Unit Cost	Cost (\$000)
	PRIMARY FACILITIES.....	-	-	-	9,081
	SMALL ARMS DEMIL FACILITY (CC 21512)	SF	43,744	207.59	(9,081)
	SUPPORTING FACILITIES.....	-	-	-	6,738
	SITE IMPROVEMENTS	LS	-	-	(2,832)
	SITE PREPARATION AND DEMOLITION	LS	-	-	(2,049)
	UTILITIES AND COMMUNICATIONS	LS	-	-	(1,607)
	CYBERSECURITY	LS	-	-	(250)
	SUBTOTAL.....	-	-	-	15,819
	CONTINGENCY (5%).....	-	-	-	<u>791</u>
	ESTIMATED CONTRACT COST.....	-	-	-	16,610
	SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	947
	DESIGN DURING CONSTRUCTION (DDC)	-	-	-	<u>351</u>
	TOTAL	-	-	-	17,908
	TOTAL (ROUNDED)	-	-	-	18,000
	REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..	-	-	-	(600)
10. Description of Proposed Construction:					
<p>Project will replace the existing small arms demilitarization (DEMIL) facility to store and DEMIL small arms and serialized parts that have been excessed by the Department of Defense. The small arms and small arms parts DEMIL facility will contain a DEMIL shop, loading area, transportation/receiving areas, short term storage areas, work area, and personnel support spaces in full compliance with Americans with Disabilities Act (ADA) requirements.</p> <p>Supporting facilities include all utilities, fire protection, storm drainage, site information systems, site lighting, walks, and paving. Site improvements include loading docks, all paving, fencing and gates. Site preparation and demolition includes removal of existing pavements and ramps, utility demolition, site grading and preparation. Measures in accordance with the Department of Defense (DoD) minimum antiterrorism standards for the building will be provided.</p>					
11. REQUIREMENT: 43,744 SQUARE FEET (SF) ADEQUATE: 0 SF SUBSTANDARD: 53,771 SF					
PROJECT: Construct a Demilitarization Facility at Anniston Army Depot (ANAD). (C)					
REQUIREMENT: A consolidated small arms and small parts demilitarization facility. Anniston Army Depot is the only location authorized for serialized weapons DEMIL, serialized weapon parts and weapon trainers in the continental United States (CONUS).					
CURRENT SITUATION: Small arms DEMIL and parts disposal functions have similar security requirements but currently are handled in separate facilities. Weapons are received and stored at a DLA Distribution facility on the installation until a sufficient number has					

1. Component DEFENSE (DLA)	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEBRUARY 2020
3. Installation and Location ANNISTON ARMY DEPOT, ANNISTON, ALABAMA		4. Project Title DEMILITARIZATION FACILITY	
5. Program Element 072976S	6. Category Code 21512	7. Project Number DRMS2101	8. Project Cost (\$000) 18,000
<p>accumulated to justify movement to the DLA Disposition DEMIL operation at another building approximately four miles away. Each weapons movement is inefficient in terms of personnel and time. Movement requires at least two personnel to accompany the weapons at all times for accountability and security. Due to recent network optimization initiatives that have realigned Disposition Services personnel throughout CONUS, ANAD DEMIL operations are experiencing significant workload increases.</p>			
<p>The small arms demilitarization building is a converted warehouse originally constructed in 1942. A Facility Condition Assessment found the roofing, dock, portions of the interior walls, HVAC, and fire alarm system are all in failing condition. The existing facility violates DoD physical security regulations for small arms and operates under a security waiver. Options to address the physical security violations within the DEMIL facility were examined but are not cost effective because the building would either need complete rebuilding using reinforced concrete or add a reinforced concrete structure inside the building, which will reduce the usable building footprint and interior height to unworkably small dimensions.</p>			
<p>IMPACT IF NOT PROVIDED: If this project is not provided, DLA will expend dwindling sustainment, restoration, and modernization dollars maintaining substandard facilities. Existing facilities will remain noncompliant structurally. Operations will be decentralized, inefficient and will have difficulty supporting the expanding DEMIL mission.</p>			
<p>ADDITIONAL: This project has been coordinated with the installation physical security plan, and all required physical security measures are included. All required anti-terrorism/force protection measures are included. ATRFP requirements are primarily met by the construction method outlined by Army AA&E storage requirements and standoff provided by the siting of the new facility. Alternative methods to meet this requirement explored during the project development were found to be infeasible. Sustainable principals, to include life-cycle cost effective practices will be integrated into the development, design, and construction of the project. The project site is not in a 100-year floodplain.</p>			
<p>DLA certifies that this project has been considered for joint use potential. Mission requirements, security requirements, operational considerations, and location are incompatible with use by other components.</p>			
12. Supplemental Data:			
A. Estimated Design Data:			
1. Acquisition Strategy		Design Bid Build	
2. Design Data			
(a) Design or Request for Proposal (RFP) Started:		MAR/2018	
(b) Percent of Design Completed as of Jan 2020 (BY-1):		35%	
(c) Design or RFP Complete:		SEP/2020	
(d) Total Design Cost (\$000):		984	
(e) Energy Study and/or Life Cycle Analysis performed:		Yes	
(f) Standard or definitive design used?		N/A	

1. Component DEFENSE (DLA)	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEBRUARY 2020
3. Installation and Location ANNISTON ARMY DEPOT, ANNISTON, ALABAMA		4. Project Title DEMILITARIZATION FACILITY	
5. Program Element 072976S	6. Category Code 21512	7. Project Number DRMS2101	8. Project Cost (\$000) 18,000
3. Construction Data: (a) Contract Award: (b) Construction Start: (c) Construction Complete:			MAR/2021 MAY/2021 OCT/2023
B. Equipment associated with this project that will be provided from other appropriations:			
<u>PURPOSE</u>	<u>APPROPRIATION</u>	<u>FISCAL YEAR REQUIRED</u>	<u>AMOUNT (\$000)</u>
STORAGE RACKING	DWCF	FY21	160
FF&E	DWCF	FY21	50
DEMIL EQUIPMENT	DWCF	FY20	800
Point of Contact is DLA Civil Engineer at 571-767-0631			

1. COMPONENT DEFENSE (DLA)		FY 2021 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYY MMDD) FEBRUARY 2020					
3. INSTALLATION AND LOCATION BEALE AIR FORCE BASE, CALIFORNIA			4. COMMAND DEFENSE LOGISTICS AGENCY			5. AREA CONSTRUCTION COST INDEX 1.18					
6. PERSONNEL		(1) PERMANENT		(2) STUDENTS			(3) SUPPORTED			(4) TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED		CIVILIAN
b. AS OF YYYYMMDD											0
b. END FY											0
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE (acre)										0.00	
b. INVENTORY TOTAL AS OF YYYYMMDD										0.00	
c. AUTHORIZATION NOT YET IN INVENTORY										0.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										22,800.00	
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										22,800.00	
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		
411	BULK FUEL TANK			10,000 BL		21,800		JAN 2019	SEP 2020		
9. FUTURE PROJECTS											
10. MISSION OR MAJOR FUNCTIONS											
<p>Beale AFB hosts the 9th Reconnaissance Wing which is responsible for providing national and theater command authorities with timely, reliable, high-quality, high-altitude reconnaissance products. To accomplish this mission, the wing is equipped with the nation's fleet of U-2 and RQ-4 reconnaissance aircraft and associated support equipment. The wing also maintains a high state of readiness in its expeditionary combat support forces for potential deployment in response to theater contingencies. Beale AFB hosts a squadron of eight KC-135R Stratotanker aircraft. The installation frequently supports wide-body transient aircraft, which typically include C-17s or C-5s.</p> <p>Deferred sustainment, restoration and modernization for fuels facilities at this location is \$0</p>											
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 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date FEBRUARY 2020
-------------------------------	---	--------------------------

3. Installation and Location BEALE AIR FORCE BASE, CALIFORNIA	4. Project Title BULK FUEL TANK
--	------------------------------------

5. Program Element 0701111S	6. Category Code 411135	7. Project Number DESC2101	8. Project Cost (\$000) 22,800
--------------------------------	----------------------------	-------------------------------	-----------------------------------

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITIES	-	-	-	15,419
JET FUEL BULK STORAGE TANK(CC 411135)	BL	10,000	710.3	(7,103)
TRANSFER PUMPHOUSE (CC 125977)	GM	1,200	4,415.8	(5,299)
FUEL TANK TRUCK OFFLOAD (CC 126926)	OL	2	1,082,500	(2,165)
FUEL TANK TRUCK FILL STAND (CC 126925)	OL	1	852,000	(852)
SUPPORTING FACILITIES	-	-	-	4,661
UTILITIES AND COMMUNICATIONS	LS	-	-	(2,047)
SITE PREPARATION AND DEMOLITION	LS	-	-	(1,359)
SITE IMPROVEMENTS	LS	-	-	(1,005)
CYBERSECURITY	LS	-	-	(250)
SUBTOTAL	-	-	-	20,080
CONTINGENCY (5%)	-	-	-	<u>1,004</u>
ESTIMATED CONTRACT COST	-	-	-	21,084
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	1,202
DESIGN DURING CONSTRUCTION	-	-	-	<u>446</u>
TOTAL	-	-	-	22,732
TOTAL (ROUNDED)	-	-	-	22,800
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)	-	-	-	(367)

10. Description of Proposed Construction:

The project will construct a new 10,000-barrel jet fuel (JP-8) tank, a transfer pump house with 600 gallon per minute (GPM) pumps and filter separators, two tank truck off-loading stations, and significantly modify the existing truck fill stand. The existing transfer pump house and off-loading stations will be demolished. Demolition and construction of new facilities will be phased to allow at fueling operations to continue during the construction period.

The new transfer pump house will include pump and control rooms. The new pumps will provide a 1,200-GPM transfer flow rate. The pump station will also include filtration for off-loading receipt and for issue to the truck fill stand.

The new truck off-loading system will include two tank truck receipt connection points and will provide a nominal off-loading rate of 600-GPM per truck, for a total of 1,200-GPM simultaneously. New canopies and truck containment will also be provided.

The truck fill stand will be repaired to remove the non-standard components from the system and to integrate the controls into the new pump house system. The existing truck containment will be replaced with a new containment area.

Site utilities and communications infrastructure includes primary and secondary service and

1. Component DEFENSE (DLA)	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEBRUARY 2020
3. Installation and Location BEALE AIR FORCE BASE, CALIFORNIA		4. Project Title BULK FUEL TANK	
5. Program Element 0701111S	6. Category Code 411135	7. Project Number DESC2101	8. Project Cost (\$000) 22,800
<p>connections, communications, cathodic protection, canopy and site lighting, transformers, automatic tank gauging systems, lightning protection, grounding, emergency power down switches and related work.</p> <p>Site preparation and demolition includes demolition of existing pavements, existing utilities, fuel piping and pumps, and clearing and grading activities.</p> <p>Site improvements include fencing, gates, seeding, signage, all work necessary for concrete pavement, curbs, sidewalks, and access drives, utilities, including piping and connections to support water requirements and other necessary work, storm drainage piping, trench drains, remote spill containment basins, and related utility work and canopies for unload and fill stand equipment.</p>			
<p>11. REQUIREMENT: 20,000 BARRELS (BL) ADEQUATE: 10,000 BL SUBSTANDARD: 0 BL</p>			
<p>PROJECT: Provide fuel receipt, storage and transfer to support flying operations and allow redundancy during inspection, maintenance, and repair (C)</p>			
<p>REQUIREMENT: Construct a new receipt area & storage tank for KC-135, NAOC and transient aircraft.</p>			
<p>CURRENT SITUATION: The single existing JP-8 bulk fuel storage tank provides a sub-standard amount of storage and does not provide redundancy when the tank must be taken out of service for routine inspection, maintenance, or repairs.</p>			
<p>The existing off-loading system off-loads two tank trucks at a maximum potential flow rate of 600-GPM but the users must decrease the flow rate to 450-GPM due to limitations of the existing system.</p>			
<p>The existing pump transfer station is adequate to transfer to the existing flightline hydrant system but at more than 50 years old, is past the end of its expected service life. The pump motors routinely overheat, causing delay to fueling operations.</p>			
<p>The fill stand is in fair condition and provides adequate capacity but the truck containment area is an older type that requires refueler trucks go over a curb to enter and exit the containment, which causes excessive wear on the vehicles. The existing fill stand has non-standard pump and filter vessel components. The pump location on the fueling island does not comply with current criteria and the filter/separator is outdated.</p>			
<p>The status of the facility can best be described as sub-standard without redundancy for routine outages.</p>			
<p>IMPACT IF NOT PROVIDED: This project prevents the bulk fuels area from losing all receipt, storage and transfer capability during a tank outage. Failure of the facility will severely limit the operational readiness of supported squadrons. Without an alternate means to receive and store bulk fuel, tank downtimes will significantly limit available jet fuel, require an increased reliance on just in-time truck deliveries, and potentially require the diversion of the KC-135 mission based from Beale AFB to another installation.</p>			
<p>ADDITIONAL: This project meets all applicable DoD criteria including cyber-security</p>			

1. Component DEFENSE (DLA)	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date FEBRUARY 2020
-------------------------------	---	--------------------------

3. Installation and Location BEALE AIR FORCE BASE, CALIFORNIA	4. Project Title BULK FUEL TANK
--	------------------------------------

5. Program Element 0701111S	6. Category Code 411135	7. Project Number DESC2101	8. Project Cost (\$000) 22,800
--------------------------------	----------------------------	-------------------------------	-----------------------------------

requirements. The project site is not in a 100-year floodplain. 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. An economic analysis has been prepared and utilized in evaluating this project. This project is the most cost-effective method to satisfy the requirement.

12. Supplemental Data:

A. Estimated Design Data:

1. Acquisition Strategy:	Design Bid Build
--------------------------	------------------

2. Design Data	
(a) Design or Request for Proposal (RFP) Started:	JAN/2019
(b) Percent of Design Completed as of Jan 2020 (BY-1):	35%
(c) Design or RFP Complete:	SEP/2020
(d) Total Design Cost (\$000):	\$1,359
(e) Energy Study and/or Life Cycle Analysis performed:	No
(f) Standard or definitive design used?	Yes

3. Construction Data:	
(a) Contract Award:	MAR/2021
(b) Construction Start:	MAY/2021
(c) Construction Complete:	MAY/2023

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

<u>PURPOSE</u>	<u>APPROPRIATION</u>	<u>FISCAL YEAR REQUIRED</u>	<u>AMOUNT (\$000)</u>
AUTOMATIC TANK GAUGING	DWCF	FY22	367

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

1. COMPONENT DEFENSE (DLA)		FY 2021 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYY MMDD) FEBRUARY 2020		
3. INSTALLATION AND LOCATION WRIGHT PATTERSON AIR FORCE BASE, OHIO			4. COMMAND DEFENSE LOGISTICS AGENCY			5. AREA CONSTRUCTION COST INDEX 0.95		
6. PERSONNEL		(1) PERMANENT		(2) STUDENTS		(3) SUPPORTED		(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF YYYYMMDD								0
b. END FY								0
7. INVENTORY DATA (\$000)								
a. TOTAL ACREAGE (acre)							0.00	
b. INVENTORY TOTAL AS OF YYYYMMDD							0.00	
c. AUTHORIZATION NOT YET IN INVENTORY							0.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM							23,500.00	
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							23,500.00	
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	
121	HYDRANT FUEL SYSTEM		3,750 SF		23,500	DEC 2017	OCT 2020	
9. FUTURE PROJECTS								
10. MISSION OR MAJOR FUNCTIONS								
<p>The 88th Air Base Wing is the host organization for Wright-Patterson Air Force Base, responsible for airfield operations, infrastructure maintenance, security, communications and overall support services to more than 100 associate units. The 445th Airlift Wing is under the Air Force Reserve Command and when mobilized, becomes part of Air Mobility Command. The Wing's mission is to attain and maintain operational readiness, provide strategic transport of personnel and equipment; provide aeromedical evacuation; and recruit and train toward these goals. The wing flies the C-17 Globemaster III, the newest, most flexible cargo aircraft to enter the airlift force.</p> <p>Deferred sustainment, restoration and modernization for fuels facilities at this location is \$0.6M</p>								
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 2021 MILITARY CONSTRUCTION PROJECT DATA			2. Date FEBRUARY 2020
3. Installation and Location WRIGHT PATTERSON AIR FORCE BASE, OHIO		4. Project Title HYDRANT FUEL SYSTEM		
5. Program Element 072976S	6. Category Code 121124	7. Project Number DESC1907	8. Project Cost (\$000) 23,500	
9. COST ESTIMATES				

1. Component DEFENSE (DLA)	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEBRUARY 2020
3. Installation and Location WRIGHT PATTERSON AIR FORCE BASE, OHIO		4. Project Title HYDRANT FUEL SYSTEM	
5. Program Element 072976S	6. Category Code 121124	7. Project Number DESC1907	8. Project Cost (\$000) 23,500
<p>Mechanical work includes new piping between the new pump house, storage tanks, truck unloading positions, fill stands, and all other necessary locations. Piping will include all required supports, valves, and appurtenances.</p> <p>Site improvements include asphalt and concrete pavement for access drives, roads, and parking areas, sidewalks, landscaping, as well as new bowser parking with containment, fencing, gates, and canopies for the product recovery tank and unload/HHT stand equipment.</p> <p>Civil site work includes excavation and earthwork, water and sanitary utilities, break tank for fire sprinklers, stormwater management, including infiltration basins and drainage.</p> <p>Site electrical work includes cathodic protection, site and building lighting, transformers, lightning protection, grounding, communications, emergency fuel shut off systems, control stations.</p> <p>Demolition and site preparation includes removing four 50,000-GAL underground tanks, the existing pump house (1,600 SF), existing industrial hot water line, miscellaneous fuel piping and appurtenances, pavement demolition and site clearing and grading, and existing site utilities removal/relocation to accommodate the new facilities.</p>			
<p>11. REQUIREMENT: 2400 GALLONS PER MINUTE (GPM) ADEQUATE: 0 GPM SUBSTANDARD: 2400 GPM</p>			
<p>PROJECT: Construct Type III Hydrant System, pump house and tanks. (C)</p> <p>REQUIREMENT: Replace the aging Type II (dead-end) hydrant fuel system with a Type III (looped) system to provide fuel at an adequate rate of flow. The industry standard for aircraft hydrant systems requires a flow rate of 2,400-GPM. Adequate fuel supply is required to expedite safe and efficient generation of aircraft sorties. The wing conducts mission support to Air Mobility Command, Air Force Reserve Command, Secret Service, local government, and humanitarian relief that suffer daily due to competing demands of aircraft refueling needs.</p> <p>CURRENT SITUATION: The existing Type II hydrant fuel system consists of four single wall underground storage tanks (USTs) with a single hydrant issue pump and does not comply with DoD standards. The system lacks a secondary truck offload as a redundant measure to receive fuel. Fuel transfer activities from bulk to the Type II USTs, and issuance from the USTs to aircraft are limited due to the system configuration. These limitations require mission downtime during system flushing per Air Force Petroleum (AFPET) regulations.</p> <p>Type II hydrant flow tests reveal lower than normal issue flow rates of 350-GPM for a single, or 200-GPM for two aircraft despite four existing pumps with 600-GPM capacity each. A study of the Type II system revealed controls are set lower to stabilize flow turbulence and reduce air in the system because of excessive backpressures while fueling large airframes. Given the limited flow rates, the average time to deliver 27,000 GAL of fuel to a single C-17 is nearly an hour-and-a-half and over two hours when simultaneously refueling two C-17s. Operation of the system is manual versus automatic, which are not normal operations for industry practice.</p> <p>The existing Type II system in its current state would require significant modernization to remain in compliance with environmental regulations and DoD Standards. Federal regulations effective 15 July 2018 require either removal of existing USTs from service or construction</p>			

1. Component DEFENSE (DLA)	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEBRUARY 2020
3. Installation and Location WRIGHT PATTERSON AIR FORCE BASE, OHIO		4. Project Title HYDRANT FUEL SYSTEM	
5. Program Element 072976S	6. Category Code 121124	7. Project Number DESC1907	8. Project Cost (\$000) 23,500
<p>of a containment and monitoring system.</p> <p>IMPACT IF NOT PROVIDED: The capabilities of the existing and aging 1950's era Type II hydrant fuel system are limited relative to a modern Type III system. Operations are less efficient since more personnel are required to operate the system and fueling rates are insufficient. Inadequate fueling rates/slow refuel times will hamper the mission of the 445th Air Wing. The system without a secondary emergency truck offload capability will remain out-of-compliance with current Unified Facility Criteria standards.</p> <p>ADDITIONAL: This project meets all applicable DoD criteria including cyber-security and anti-terrorism force protection requirements. The project site is not in a 100-year floodplain. This project has been coordinated with the installation physical security plan, and all physical security measures are included. This project is the most cost-effective method to satisfy the requirement. Connections to privatized electric, water, and wastewater systems are required and the respective owners will make connections up to a defined point of demarcation.</p>			
12. Supplemental Data:			
A. Estimated Design Data:			
1. Acquisition Strategy			Design Bid Build
2. Design Data (a) Design or Request for Proposal (RFP) Started: (b) Percent of Design Completed as of Jan 2020 (BY-1): (c) Design or RFP Complete: (d) Total Design Cost (\$000): (e) Energy Study and/or Life Cycle Analysis performed: (f) Standard or definitive design used?			DEC/2017 35% OCT/2020 2,372 Yes Yes
3. Construction Data: (a) Contract Award: (b) Construction Start: (c) Construction Complete:			MAR/2021 MAY/2021 OCT/2023
B. Equipment associated with this project that will be provided from other appropriations:			
<u>PURPOSE</u>	<u>APPROPRIATION</u>	<u>FISCAL YEAR REQUIRED</u>	<u>AMOUNT (\$000)</u>
AUTOMATIC TANK GAUGING	DWCF	FY21	253
CONTAMINATED SOIL CLEANUP/REMOVAL	DWCF	FY21	197
Point of Contact is DLA Civil Engineer at 571-767-0631			

1. COMPONENT DEFENSE (DLA)		FY 2021 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYY MMDD) FEBRUARY 2020				
3. INSTALLATION AND LOCATION FORT HOOD, TEXAS			4. COMMAND DEFENSE LOGISTICS AGENCY			5. AREA CONSTRUCTION COST INDEX 0.89				
6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF YYYYMMDD										0
b. END FY										0
7. INVENTORY DATA (\$000)										
a. TOTAL ACREAGE (acre)									0.00	
b. INVENTORY TOTAL AS OF YYYYMMDD									0.00	
c. AUTHORIZATION NOT YET IN INVENTORY									0.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM									32,700.00	
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									32,700.00	
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	
121	FUEL FACILITIES			6 OL		32,700		JAN 2018	OCT 2020	
9. FUTURE PROJECTS										
10. MISSION OR MAJOR FUNCTIONS										
<p>III Corps and its Subordinate Units are prepared to rapidly deploy and conduct the full range of military operations to seize, retain, and exploit the initiative, in order to defeat any adversary. The Corps is prepared to exercise mission command of Army, Joint, and Multi-National Forces, as a Corps, Joint Task force (JTF), or Combined Joint Forces Land Component Command (CJFLCC).</p> <p>To meet this mission, Ft. Hood requires efficient, reliable refueling and defueling capabilities to support various size and type aircraft. Sustainment, restoration and modernization at this location is \$0.1M</p>										
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 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date FEBRUARY 2020
-------------------------------	---	--------------------------

3. Installation and Location FORT HOOD, TEXAS	4. Project Title FUEL FACILITIES
--	-------------------------------------

5. Program Element 0702976S	6. Category Code 12110	7. Project Number DESC2003	8. Project Cost (\$000) 32,700
--------------------------------	---------------------------	-------------------------------	-----------------------------------

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITIES	-	-	-	22,331
HYDRANT LOOP (CC 12110)	OL	6	1,055.16	(6,331)
FUEL STORAGE, JET FUEL (CC 12413)	GA	504,000	11.78	(5,935)
PUMP SHELTER AND CONTROL ROOM (CC 14165)	SF	3,750	1,080.80	(4,053)
POL PUMPS (CC 12621)	GM	2,400	1,557.50	(3,738)
FUEL TRUCK LOADING (CC 12120)	OL	2	687,000	(1,374)
TANK TRUCK UNLOADING (CC 12630)	OL	2	450,000	(900)
SUPPORTING FACILITIES	-	-	-	6,731
SITE IMPROVEMENTS	LS	-	-	(3,381)
SITE ELECTRICAL	LS	-	-	(1,570)
CIVIL SITE WORK	LS	-	-	(1,330)
DEMOLITION AND SITE PREPARATION	LS	-	-	(450)
SUBTOTAL	-	-	-	29,062
CONTINGENCY (5%)	-	-	-	<u>1,453</u>
ESTIMATED CONTRACT COST	-	-	-	30,515
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	1,739
DESIGN DURING CONSTRUCTION (DDC).....	-	-	-	<u>442</u>
TOTAL	-	-	-	32,696
TOTAL (ROUNDED)	-	-	-	32,700
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..				(270)

10. Description of Proposed Construction:

Construct a new Type III (looped) Hydrant System that includes aboveground fuel storage tanks, pump shelter with a control room, product recovery tank, truck loading points with combined hydrant hose truck checkout stand, truck unloading points, spill containment, and supporting facilities. The new fuel facility will supply a new aircraft direct fuel system to the parking apron at Robert Gray Army Airfield (RGAFF) at Fort Hood.

The new hydrant loop includes installing new piping to complete the issue and return loop between the new pump house and the six hydrant outlets located at the refueling apron. Piping will include all required supports, valves, and any other necessary appurtenances.

The new fuel storage tanks are 6,000 barrel (504,000 gallon) above ground storage tanks and include all associated piping and equipment, automatic tank gauging, independent alarm system, platforms, railing, stairs, tank foundations and supports.

The new standard Type III pump shelter will contain an enclosed control room, mechanical room, restroom, and open-sided pump area as well as emergency shut-off switches, emergency shower and eyewash, HVAC, fire sprinklers, alarms, bridge crane, pump controls, grounding and

1. Component DEFENSE (DLA)	FY 2021 MILITARY CONSTRUCTION PROJECT DATA			2. Date FEBRUARY 2020
3. Installation and Location FORT HOOD, TEXAS		4. Project Title FUEL FACILITIES		
5. Program Element 0702976S	6. Category Code 12110	7. Project Number DESC2003	8. Project Cost (\$000) 32,700	
<p>lightning protection, pig launcher and receiver stations, communications and data infrastructure, and leak detection systems. Provide an above ground double-wall product recovery tank and all associated piping, pumps, valves, and appurtenances.</p> <p>The new standard Type III POL pump equipment will include 600-GPM pumps, 1,200-GPM receipt filter separators, 600-GPM issue filter separators, and all related piping, piping supports, pumps, valves, and appurtenances.</p> <p>New fill stands and truck unloading points includes refueler truck load and unload containment areas, hydrant hose truck checkout stand, as well as all mechanical equipment, pumps, grounding, spill containment, piping, and supports.</p> <p>Site improvements include asphalt and concrete pavement for the fueling apron, access drives, roads and parking areas, sidewalks, landscaping, fueling apron restriping, security fencing around the consolidated fuel facility with gates, and canopies at the truck unloading, truck loading, and HHT stands.</p> <p>Civil site work includes excavation and earthwork as well as water and sanitary utility requirements, stormwater management, including infiltration basins and drainage.</p> <p>Site electrical work includes cathodic protection, building lighting, site lighting, transformers, lightning protection, grounding, communications, emergency fuel shut off systems, control stations and an emergency generator.</p> <p>Demolition and site preparation includes removal of existing hydrant pits at the fueling apron, associated piping and appurtenances, pavement removal and site clearing and grading.</p>				
11. REQUIREMENT: 6 OUTLET (OL) ADEQUATE: 0 OL SUBSTANDARD: 8 OL				
<p>PROJECT: Construct Type III hydrant system, pump shelter, and tanks. (C)</p> <p>REQUIREMENT: Replace the aging and inadequate hydrant fuel system currently serving the RGAAF parking apron at Fort Hood, Texas with a modern Type III (looped) hydrant system. Adequate hydrant fuel supply is required to capably expedite and service multiple aircraft simultaneously. The industry standard hydrant systems for aircraft requires a flow rate of 2,400-GPM. Operations support power-projection aircraft such as B373, B747, B767, B777, C-5, C-17, and C-130s. The RGAAF mission provides support to multiple COCOMS, Headquarters III Corps, 1st Cavalry Division, 13th Sustainment Command, First Army Division West, 3rd Armored Cavalry Regiment, 41st Fires Brigade, local government, and humanitarian relief efforts.</p> <p>CURRENT SITUATION: The existing RGAAF fuel farm includes two 12,500 barrel (BBL) aboveground vertical storage tanks, two truck offload positions, two truck fill stand positions, an 1,800-GPM capacity pump shelter, an electrical building and a hydrant loop serving 8 positions at the apron area. This facility is 30-plus years old, outdated, unsafe, and at the end of its expected lifespan. Despite multiple sustainment, repair and modernization (SRM) projects, the fueling facility continues to decline in reliability. This has resulted in numerous work stoppages in fuel servicing and environmental releases from the current system.</p>				

1. Component DEFENSE (DLA)		FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEBRUARY 2020	
3. Installation and Location FORT HOOD, TEXAS			4. Project Title FUEL FACILITIES		
5. Program Element 0702976S		6. Category Code 12110	7. Project Number DESC2003	8. Project Cost (\$000) 32,700	
<p>Due to recently confirmed fuel contamination in the hydrant loop piping, the hydrant fueling capability of this system has been suspended indefinitely. The existing hydrant loop configuration is not suitable for cleaning or inspection pigging operations, so without complete loop replacement the existing system cannot provide the critical hydrant fueling and defueling capabilities needed for the airfield.</p> <p>The existing hydrant system is an environmental liability with two large spills occurring at this facility within the last seven years. The fuel spills have damaged the environment and cost millions of dollars in both lost fuel and clean-up costs. Operation of the existing system is difficult, as no line-of-sight exists between the hot points and the terminal, which can lead to overfilling. The inability to directly view fueling operations was partially responsible for the past fuel releases. The proposed new location and by modernizing to a Type III will address these issues thereby minimizing the potential of future release.</p> <p>IMPACT IF NOT PROVIDED: The capabilities of the existing and aging 1950's era hydrant fuel system are limited relative to a modern Type III system. As the current hydrant loop shutdown demonstrates, any work stoppage impedes COCOM missions as well as the power projection platform mission of the airfield. A hydrant loop closure forces RGAAF and the III Corps to rely 100% on tanker trucks to refuel aircraft. This stopgap measure of aircraft refueling results in significant mission delays. With minimal amounts of fuel transferred to aircraft by truck, flight missions experience significant delays as missions are required to have an additional refueling stop at another location, costing both time and mission funding. The existing system in its current state would require significant modernization to remain in compliance with DoD and environmental standards.</p> <p>ADDITIONAL: This project meets all applicable DoD criteria including cyber-security requirements and anti-terrorism force protection requirements. The project site is not in a 100-year floodplain. This project has been coordinated with the installation physical security plan, and all physical security measures are included. An economic analysis has been prepared and utilized in evaluating this project. This project is the most cost-effective method to satisfy the requirement. Utility connections are required to a privatized electric distribution, water, and wastewater systems. DLA intends to have the respective Utilities Privatization System Owners make and own the necessary connections up to the facility service disconnect or other defined point of demarcation.</p>					
12. Supplemental Data:					
A. Estimated Design Data:					
4. Acquisition Strategy:				Design Bid Build	
5. Design Data					
(a) Design or Request for Proposal (RFP) Started:				JAN/2018	
(b) Percent of Design Completed as of Jan 2020 (BY-1):				35%	
(c) Design or RFP Complete:				OCT/2020	
(d) Total Design Cost (\$000):				711	
(e) Energy Study and/or Life Cycle Analysis performed:				Yes	
(f) Standard or definitive design used?				Yes	

1. Component DEFENSE (DLA)		FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEBRUARY 2020	
3. Installation and Location FORT HOOD, TEXAS			4. Project Title FUEL FACILITIES		
5. Program Element 0702976S		6. Category Code 12110	7. Project Number DESC2003	8. Project Cost (\$000) 32,700	
6. Construction Data: (a) Contract Award: (b) Construction Start: (c) Construction Complete:				MAR/2021 MAY/2021 MAR/2023	
B. Equipment associated with this project that will be provided from other appropriations:					
<u>PURPOSE</u>		<u>APPROPRIATION</u>	<u>FISCAL YEAR REQUIRED</u>	<u>AMOUNT (\$000)</u>	
AUTOMATIC TANK GAUGING		DWCF	FY21	190	
CONTAMINATED SOIL CLEANUP/REMOVAL		DWCF	FY21	80	
Point of Contact is DLA Civil Engineer at 571-767-0631					

1. COMPONENT DEFENSE (DLA)		FY 2021 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYY MMDD) FEBRUARY 2020		
3. INSTALLATION AND LOCATION DEFENSE FUEL SUPPLY POINT, MANCHESTER, WASHINGTON			4. COMMAND DEFENSE LOGISTICS AGENCY			5. AREA CONSTRUCTION COST INDEX 1.11		
6. PERSONNEL		(1) PERMANENT		(2) STUDENTS		(3) SUPPORTED		(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF YYYYMMDD								0
b. END FY								0
7. INVENTORY DATA (\$000)								
a. TOTAL ACREAGE (acre)							0.00	
b. INVENTORY TOTAL AS OF YYYYMMDD							0.00	
c. AUTHORIZATION NOT YET IN INVENTORY							0.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM							82,000.00	
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							82,000.00	
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	
411	BULK FUEL STORAGE TANKS PHI		250,000 BL		82,000	MAR 2018	JUN 2019	
9. FUTURE PROJECTS								
411	BULK FUEL STORAGE TANKS PH2		250,000 BL		64,000	OCT 2021	OCT 2022	
411	BULK FUEL STORAGE TANKS PH3		250,000 BL		72,000	OCT 2023	OCT 2024	
10. MISSION OR MAJOR FUNCTIONS								
<p>Fleet Logistics Center Puget Sound (FLCPS) is one of the largest fuel storage and dispensing facilities in the Pacific Northwest. The primary mission of the facility is the bulk storage and distribution of aviation fuels and marine diesel in the Pacific theater.</p> <p>Deferred sustainment, restoration and modernization for fuels facilities at this location is \$13.5M</p>								
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 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date FEBRUARY 2020
-------------------------------	---	--------------------------

3. Installation and Location DEFENSE FUEL SUPPLY POINT, MANCHESTER, WASHINGTON	4. Project Title BULK FUEL STORAGE TANKS PH1
--	---

5. Program Element 0702976S	6. Category Code 41121	7. Project Number DESC2002	8. Project Cost (\$000) 82,000
--------------------------------	---------------------------	-------------------------------	-----------------------------------

9. COST ESTIMATES				
Item	U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITIES	-	-	-	38,533
BULK STORAGE TANK (CC 41121))	BL	250,000	111.94	(27,985)
PIPELINE (CC 12521)	LF	6,500	1,622.8	(10,548)
SUPPORTING FACILITIES.....	-	-	-	33,818
SITE PREPARATION	LS	-	-	(13,217)
DEMOLITION AND SITE CLEARING	LS	-	-	(10,821)
SITE UTILITIES	LS	-	-	(5,740)
PAVING AND SITE IMPROVEMENTS	LS	-	-	(3,790)
CYBERSECURITY	LS	-	-	(250)
SUBTOTAL.....	-	-	-	72,351
CONTINGENCY (5%).....	-	-	-	<u>3,618</u>
ESTIMATED CONTRACT COST.....	-	-	-	75,969
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	4,330
DESIGN DURING CONSTRUCTION (DDC).....	-	-	-	<u>1,606</u>
TOTAL	-	-	-	81,905
TOTAL (ROUNDED)	-	-	-	82,000
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..	-	-	-	750

10. Description of Proposed Construction:
This phase will construct two above ground multi-product capable fuel storage tanks, secondary containment with remote impoundment, and pipelines to connect to the marine diesel fuel (F-76) and naval jet fuel (JP-5) piping system. Each tank will have a capacity of 125,000 barrels of fuel and will include above ground manifold piping to allow storage of either JP-5 or F-76 fuel types with connection to the existing pump house.

Supporting facilities in this phase include site preparation, fire suppression utility upgrades, electrical utilities upgrades, and the closure, decommissioning and demolition of five cut and cover tanks. Site preparation includes extensive site work required to construct the tanks and the containment. Per DoD standards, secondary containment around the new aboveground storage tanks (AST) including the remote impoundment must be sized for complete and catastrophic failure of the largest tank.

11. REQUIREMENT: 850,000 BARRELS (BL) **ADEQUATE:** 450,000 BL **SUBSTANDARD:** 0 BL

PROJECT: Construct above ground fuel storage tanks, compliant with environmental laws to replace aged, existing underground fuel storage tanks. (C)

REQUIREMENT: This project is the first phase of a multi-phase project constructing a total of six new 125,000-barrel ASTs and associated site improvements to replace old concrete cut and cover underground storage tanks at Fleet Logistics Center Puget Sound (FLCPS). Across the

1. Component DEFENSE (DLA)	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEBRUARY 2020
3. Installation and Location DEFENSE FUEL SUPPLY POINT, MANCHESTER, WASHINGTON		4. Project Title BULK FUEL STORAGE TANKS PH1	
5. Program Element 0702976S	6. Category Code 41121	7. Project Number DESC2002	8. Project Cost (\$000) 82,000

planned phases, the project will demolish a total of eight existing cut and cover bulk tanks. This project will keep the FLCPS fuel facility operational throughout the project construction and will extend the service life period by over 50 years.

CURRENT SITUATION: The existing Fleet Logistics Center Puget Sound (FLCPS) facility consists of single-wall cut and cover built in the 1940s to 1950s. Fuel transfer and distribution occurs over 11 miles of either underground tunnel or aboveground piping. Each tunnel contains tank issue, receipt, and sump piping.

Given the current regulatory criteria for underground storage tanks (USTs), the vintage design of single-walled cut-and-cover tanks is causing increased environmental scrutiny from federal, state, and regional regulatory agencies. Prior to 2015, the bulk field constructed USTs were deferred from compliance with 40 CFR 280, the Federal UST Regulations. Deferred status was removed in 2015, and as of 2018, the facility must comply with new Environmental Protection Agency (EPA) UST requirements. To comply with the new UST Regulations, FLCPS must conduct annual tank tightness testing on all the tanks. Testing each tank takes approximately one week to complete, and the tanks must be static during the tightness tests, causing operational disruption. If a tank fails the test, additional testing and inspection is required, further impacting operations. For six tanks, the current tank cleaning, inspecting, and repairing process takes a four-year cycle to complete. Historically, the Navy employs a ten-year periodicity for concrete tank inspection and repairs, driving individual tank out of service rates to 30 percent and the facility full mission capable rate to less than 75 percent. Mandatory repairs include drain line repairs, sleeving the receipt and issue lines, tank coating repairs, etc. Currently, the drain line represents an unprotected single point of failure.

The existing fire protection system supporting the project site does not meet current UFC and fire protection code (NFPA) requirements. The 6-inch diameter water mains are over 70 years old and are beyond their useful service life. The water mains are undersized per NFPA criteria. The existing pump system does not provide an automatic fire water supply as required by codes and pressures are not sufficient to meet current UFC requirements.

Six of the existing cut and cover tanks and portions of the tunnel piping system are located within a recently identified active fault zone. Rupture of either tanks or piping increases the risk of product loss to the surrounding environment.

IMPACT IF NOT PROVIDED: If this facility is not constructed, the facility is at risk of not meeting their usable fuel storage capacity and economic resupply volume requirements for both JP-5 and F-76. In addition, environmental compliance requirements will increase tank out-of-service times if a tank fails its annual tightness testing. Maintenance costs will continue to increase. Current cost projections are \$3.55 million per tank over the next 20 years.

ADDITIONAL: Design will comply with Unified Facilities Criteria Petroleum Fuel Facilities design. Sustainable principles include life cycle cost effective practices will be integrated into design and construction, in accordance with applicable laws and Executive Orders. This project will meet all applicable DoD criteria to include cyber-security. Mission requirements, operational considerations, and location are incompatible with use by other components. This site is not located in a floodplain.

1. Component DEFENSE (DLA)		FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEBRUARY 2020	
3. Installation and Location DEFENSE FUEL SUPPLY POINT, MANCHESTER, WASHINGTON			4. Project Title BULK FUEL STORAGE TANKS PH1		
5. Program Element 0702976S		6. Category Code 41121	7. Project Number DESC2002	8. Project Cost (\$000) 82,000	
12. Supplemental Data:					
A. Estimated Design Data:					
1. Acquisition Strategy				Design Bid Build	
2. Design Data (a) Design or Request for Proposal (RFP) Started: (b) Percent of Design Completed as of Jan 2020 (BY-1): (c) Design or RFP Complete: (d) Total Design Cost (\$000): (e) Energy Study and/or Life Cycle Analysis performed: (f) Standard or definitive design used?				MAR/2018 100% AUG/2019 8,000 Yes No	
3. Construction Data: (a) Contract Award: (b) Construction Start: (c) Construction Complete:				MAR/2021 JUN/2021 JUL/2024	
B. Equipment associated with this project that will be provided from other appropriations: N/A					
<u>PURPOSE</u>		<u>APPROPRIATION</u>	<u>FISCAL YEAR REQUIRED</u>	<u>AMOUNT (\$000)</u>	
AUTOMATIC TANK GAUGING		DWCF	FY23	750	
Point of Contact is DLA Civil Engineer at 571-767-0631					

1. COMPONENT DEFENSE (DLA)		FY 2021 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYY MMDD) FEBRUARY 2020		
3. INSTALLATION AND LOCATION JOINT BASE LEWIS-MCCORD, WASHINGTON			4. COMMAND DEFENSE LOGISTICS AGENCY			5. AREA CONSTRUCTION COST INDEX 1.10		
6. PERSONNEL		(1) PERMANENT		(2) STUDENTS		(3) SUPPORTED		(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF YYYYMMDD								0
b. END FY								0
7. INVENTORY DATA (\$000)								
a. TOTAL ACREAGE (acre)								0.00
b. INVENTORY TOTAL AS OF YYYYMMDD								0.00
c. AUTHORIZATION NOT YET IN INVENTORY								0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM								21,800.00
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								21,800.00
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		
124	FUEL FACILITIES (LEWIS NORTH)	32,000 GA		10,900	JAN 2019	SEP 2020		
124	FUEL FACILITIES (LEWIS MAIN)	36,000 GA		10,900	JAN 2019	SEP 2020		
9. FUTURE PROJECTS								
10. MISSION OR MAJOR FUNCTIONS								
<p>Joint Base Lewis-McChord (JBLM) is the Defense Department's premiere military installation on the West Coast. JBLM provides world-class installation support to more than 40,000 active, Guard and Reserve Service members, and about 15,000 civilian workers. The primary mission of JBLM is to operate a state-of-the-art projection platform for war fighters by providing them with superior training support and infrastructure, to train, and maintain fully capable mobilization and deployment operations for the Army, Navy, Air Force, and Marines.</p> <p>Deferred sustainment, restoration, and modernization for fuel facilities at this location is \$2.7M.</p>								
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 2021 MILITARY CONSTRUCTION PROJECT DATA			2. Date FEBRUARY 2020
3. Installation and Location JOINT BASE LEWIS MCCORD, WASHINGTON		4. Project Title FUEL FACILITIES (LEWIS NORTH)		
5. Program Element 0702976S	6. Category Code 12481	7. Project Number DESC2104A	8. Project Cost (\$000) 10,900	

9. COST ESTIMATES				
Item	U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITIES	-	-	-	2,405
VEHICLE FUEL STORAGE, KEROSENE (CC12481)	GA	32,000	21.3	(683)
LIQUID FUEL, UNLOADING FACILITY (CC12630)	OL	3	226,667	(680)
VEHICLE FUELING FACILITY, KEROSENE (CC12322) ...	OL	16	30,250	(484)
VEHICLE FUEL STORAGE, MOGAS (CC12451)	GA	12,000	21.3	(256)
FUEL OPS BUILDING (CC14165)	SF	1,100	164.5	(181)
VEHICLE FUELING FACILITY, MOGAS (CC12311)	OL	4	30,250	(121)
SUPPORTING FACILITIES	-	-	-	7,189
SITE IMPROVEMENTS	LS	-	-	(3,381)
CIVIL SITE WORK	LS	-	-	(2,890)
SITE ELECTRICAL WORK	LS	-	-	(559)
DEMOLITION AND SITE PREPARATION	LS	-	-	(359)
ESTIMATED CONTRACT COST	-	-	-	9,594
CONTINGENCY (5%)	-	-	-	<u>480</u>
SUBTOTAL	-	-	-	10,074
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	574
DESIGN DURING CONSTRUCTION (DDC).....	-	-	-	<u>213</u>
TOTAL	-	-	-	10,861
TOTAL (ROUNDED)	-	-	-	10,900
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..				(53)

10. Description of Proposed Construction:

New facilities will include a controls building, fuel gauging and monitoring systems, fuel storage tanks, and fueling receipt and dispensing equipment. Supporting facilities include utilities, electric service, paving, fuel spill containment, storm drainage, on-site storm runoff infiltration facilities, and site preparation.

The new fuel storage tanks will contain kerosene (e.g., aviation turbine fuel (F24), diesel) and mogas fuel types, with one type per tank. They will be horizontal aboveground tanks and will include all associated piping, pumps, vents, hatches, automatic tank gauging, independent alarm systems, platforms, railings, ladders, foundations, supports, and all other necessary incidentals.

The new truck unloading points will be constructed to serve each fuel storage tank per its type of fuel. This work also includes refueler truck unload containment areas as well as all

1. Component DEFENSE (DLA)	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEBRUARY 2020
3. Installation and Location JOINT BASE LEWIS MCCORD, WASHINGTON		4. Project Title FUEL FACILITIES (LEWIS NORTH)	
5. Program Element 0702976S	6. Category Code 12481	7. Project Number DESC2104A	8. Project Cost (\$000) 10,900
<p>mechanical equipment, pumps, grounding, piping, and all other necessary incidentals.</p> <p>The new fuel dispensing equipment will be constructed on concrete islands and includes pumps, hoses, piping, valves, leak detection, signage, and all other necessary incidentals. Dispensers will consist of either normal flow or high flow units.</p> <p>The new operations building will serve to house electrical panels and controls and will include all necessary HVAC, plumbing, fire protection, electrical, communications and data infrastructure, and all other necessary incidentals.</p> <p>Site improvements include asphalt and concrete pavement for access drives, traffic areas, parking areas, and all other necessary incidentals. Fencing will be installed around the facility for security, including associated gates. Canopies will be provided for the truck unload as well as the fuel dispensing areas.</p> <p>Civil site work includes any necessary excavation, earthwork, and landscaping as well as all water utility requirements along with associated appurtenances and all other necessary incidentals. Storm water management will also be provided, including remote containment basins, trench drains, piping, and storm water infiltration systems.</p> <p>Site electrical work includes the provision of cathodic protection, all electrical utility requirements, building and site lighting, transformers, emergency generator, lightning protection, grounding, communication lines, emergency fuel shutoff systems, control stations, and all other necessary incidentals.</p> <p>Demolition and site preparation includes the removal of all incidental existing pavement, unsuitable soils, and trees.</p>			
11. REQUIREMENT: 32,000 GALLONS (GA) ADEQUATE: 0 GA SUBSTANDARD: 0 GA			
<p>PROJECT: Construct new fuel facilities on Joint Base Lewis-McChord (JBLM), Lewis North to support installation and transient tactical and non-tactical vehicles, including fuel storage, dispensers, and operations building. (C)</p> <p>REQUIREMENT: This project is required to provide fuel to DoD/Army equipment, supporting Brigade Combat Teams and Aviation Brigade. The new facilities will replace existing facilities that are undersized, noncompliant and pose a health, safety, and environmental risk to the installation and users. JBLM is a training and mobilization center for all services and is the only Army power-projection base west of the Rocky Mountains. I Corps and Special Operations units on post require efficient refueling operations that are not currently available. US NORTHCOM expects JBLM to effectively deliver strategic support from a "Defense Support of Civil Authorities" perspective that cannot be met with the current facilities on JBLM.</p> <p>CURRENT SITUATION: Land vehicle capacity of the current infrastructure can service only 15% of the six home brigades and special operations units that call JBLM home. Unified Facilities Criteria (UFC) requires a dispenser outlet for every 100 vehicles. The existing undersized facilities are a safety hazard as tactical vehicles block traffic by queuing on adjacent streets while waiting for service. Some units have resorted to refueling in their motor pools, which increases environmental risk for Commanders since those facilities are not designed to support those types of operations (e.g., necessary level of spill control). In</p>			

1. Component DEFENSE (DLA)		FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEBRUARY 2020	
3. Installation and Location JOINT BASE LEWIS MCCORD, WASHINGTON			4. Project Title FUEL FACILITIES (LEWIS NORTH)		
5. Program Element 0702976S		6. Category Code 12481	7. Project Number DESC2104A	8. Project Cost (\$000) 10,900	
<p>addition, non-tactical equipment must travel extended distances to acquire fuel since only one service station exists on Joint Base Lewis-McChord (JBLM).</p> <p>IMPACT IF NOT PROVIDED: Combat vehicles will continue to struggle to meet timely mission requirements. Additional travel required for refueling will increase wear and tear on equipment and roads, increase safety risk, as well as continue to waste time and fuel. Units will continue to risk refueling in motor pools not designed for a refueling mission. Safety concerns with backed up vehicles staging on roadways outside the current facilities will continue, and new facilities are the only way to mitigate this risk. I Corps and Special Operations units would fail to receive efficient refueling operations on JBLM.</p> <p>ADDITIONAL: This project meets all applicable DoD criteria including cyber-security and anti-terrorism force protection requirements. The project site is not in a 100-year floodplain. This project has been coordinated with the installation physical security plan, and all physical security measures are included. An economic analysis has been prepared and utilized in evaluating this project. This project is the most cost-effective method to satisfy the requirement.</p>					
12. Supplemental Data:					
A. Estimated Design Data:					
1. Acquisition Strategy				Design Bid Build	
2. Design Data					
(a) Design or Request for Proposal (RFP) Started:				JAN/2019	
(b) Percent of Design Completed as of Jan 2020 (BY-1):				35%	
(c) Design or RFP Complete:				NOV/2020	
(d) Total Design Cost (\$000):				750	
(e) Energy Study and/or Life Cycle Analysis performed:				No	
(f) Standard or definitive design used?				Yes	
3. Construction Data:					
(a) Contract Award:				MAY/2021	
(b) Construction Start:				JUL/2021	
(c) Construction Complete:				JUL/2023	
B. Equipment associated with this project that will be provided from other appropriations:					
<u>PURPOSE</u>		<u>APPROPRIATION</u>	<u>FISCAL YEAR</u> <u>REQUIRED</u>	<u>AMOUNT (\$000)</u>	
AUTOMATED TANK GAUGING		DWCF	FY21	53	
Point of Contact is DLA Civil Engineer at 571-767-0631					

1. Component DEFENSE (DLA)	FY 2021 MILITARY CONSTRUCTION PROJECT DATA			2. Date FEBRUARY 2020
3. Installation and Location JOINT BASE LEWIS-MCCHORD, WASHINGTON		4. Project Title FUEL FACILITIES (LEWIS MAIN)		
5. Program Element 0702976S	6. Category Code 12481	7. Project Number DESC2104B	8. Project Cost (\$000) 10,900	

9. COST ESTIMATES				
Item	U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITIES	-	-	-	2,702
VEHICLE FUEL STORAGE ABV, KEROSENE (CC12481) ...	GA	36,000	23.2	(838)
LIQUID FUEL, UNLOADING FACILITY (CC12630)	OL	3	232,667	(698)
VEHICLE FUELING FACILITY, KEROSENE (CC12322) ...	OL	20	29,400	(588)
VEHICLE FUEL STORAGE ABV, MOGAS (CC12451)	GA	12,000	23.3	(279)
FUEL OPS BUILDING (CC14165)	SF	1,100	164.5	(181)
VEHICLE FUELING FACILITY, MOGAS (CC12311)	OL	4	29,500	(118)
SUPPORTING FACILITIES	-	-	-	6,900
SITE IMPROVEMENTS	LS	-	-	(3,561)
CIVIL SITE WORK	LS	-	-	(2,583)
SITE ELECTRICAL WORK	LS	-	-	(469)
DEMOLITION AND SITE PREPARATION	LS	-	-	(287)
ESTIMATED CONTRACT COST	-	-	-	9,602
CONTINGENCY (5%)	-	-	-	<u>480</u>
SUBTOTAL	-	-	-	10,082
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	575
DESIGN DURING CONSTRUCTION (DDC)	-	-	-	<u>213</u>
TOTAL	-	-	-	10,870
TOTAL (ROUNDED)	-	-	-	10,900
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..				(62)

10. Description of Proposed Construction:

New facilities will include a controls building, fuel gauging and monitoring systems, fuel storage tanks, and fueling receipt and dispensing equipment. Supporting facilities include utilities, electric service, paving, fuel spill containment, storm drainage, on-site storm runoff infiltration facilities, and site preparation.

The new fuel storage tanks will contain kerosene (e.g., aviation turbine fuel (F24), diesel) and mogas fuel types, with one type per tank. They will be horizontal aboveground tanks and will include all associated piping, pumps, vents, hatches, automatic tank gauging, independent alarm systems, platforms, railings, ladders, foundations, supports, and all other necessary incidentals.

The new truck unloading points will be constructed to serve each fuel storage tank per its type of fuel. This work also includes refueler truck unload containment areas as well as all mechanical equipment, pumps, grounding, piping, and all other necessary incidentals.

1. Component DEFENSE (DLA)	FY 2021 MILITARY CONSTRUCTION PROJECT DATA			2. Date FEBRUARY 2020
3. Installation and Location JOINT BASE LEWIS-MCCHORD, WASHINGTON		4. Project Title FUEL FACILITIES (LEWIS MAIN)		
5. Program Element 0702976S	6. Category Code 12481	7. Project Number DESC2104B	8. Project Cost (\$000) 10,900	
<p>The new fuel dispensing equipment will be constructed on concrete islands and will include pumps, hoses, piping, valves, leak detection, signage, and all other necessary incidentals. Dispensers will consist of either normal flow or high flow units.</p> <p>The new operations building will serve to house electrical panels and controls and will include all necessary HVAC, plumbing, fire protection, electrical, communications and data infrastructure, and all other necessary incidentals.</p> <p>Site improvements include asphalt and concrete pavement for access drives, traffic areas, parking areas, and all other necessary incidentals. Fencing will be installed around the facility for security, including associated gates. Canopies will be provided for the truck unload area as well as the fuel dispensing areas.</p> <p>Civil site work includes any necessary excavation, earthwork, and landscaping as well as all water utility requirements along with associated appurtenances and all other necessary incidentals. Storm water management will also be provided, including remote containment basins, trench drains, piping, and storm water infiltration systems.</p> <p>Site electrical work includes the provision of cathodic protection, all electrical utility requirements, building and site lighting, transformers, emergency generator, lightning protection, grounding, communication lines, emergency fuel shutoff systems, control stations, and all other necessary incidentals.</p> <p>Demolition and site preparation includes the removal of all incidental existing pavement, unsuitable soils, and trees.</p>				
11. REQUIREMENT: 36,000 GALLONS (GA) ADEQUATE: 0 GA SUBSTANDARD: 0 GA				
<p>PROJECT: Construct new fuel facilities on Joint Base Lewis-McChord (JBLM), Lewis Main to support installation and transient tactical and non-tactical vehicles, including new fuel storage, dispensers, and operations building. (C)</p> <p>REQUIREMENT: This project is required to provide fuel to DoD/Army equipment, supporting Brigade Combat Teams and Aviation Brigade. The new facilities will replace existing facilities that are undersized, noncompliant and pose a health, safety, and environmental risk to the installation and users. Joint Base Lewis-McChord (JBLM) is a training and mobilization center for all services and is the only Army power-projection base west of the Rocky Mountains. I Corps and Special Operations units on post require efficient refueling operations that are not currently available. US NORTHCOM expects JBLM to effectively deliver strategic support from a "Defense Support of Civil Authorities" perspective that cannot be met with the current facilities on JBLM.</p> <p>CURRENT SITUATION: Land vehicle capacity of the current infrastructure can service only 15% of the six home brigades and special operations units that call JBLM home. Unified Facilities Criteria (UFC) 3-460-01 requires a dispenser outlet for every 100 vehicles. The existing undersized facilities are a safety hazard as tactical vehicles block traffic by queuing on adjacent streets while waiting for service. In addition, non-tactical equipment must travel extended distances to acquire fuel since only one service station exists on JBLM. Some units have resorted to refueling in their motor pools, which increases environmental risk for Commanders since those facilities are not designed to support those types of operations</p>				

1. Component DEFENSE (DLA)		FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEBRUARY 2020	
3. Installation and Location JOINT BASE LEWIS-MCCHORD, WASHINGTON			4. Project Title FUEL FACILITIES (LEWIS MAIN)		
5. Program Element 0702976S		6. Category Code 12481	7. Project Number DESC2104B	8. Project Cost (\$000) 10,900	
<p>(e.g., necessary level of spill control). In addition, non-tactical equipment must travel extended distances to acquire fuel since only one service station exists on Joint Base Lewis-McChord (JBLM).</p> <p>IMPACT IF NOT PROVIDED: Combat vehicles will continue to struggle to meet timely mission requirements. Additional travel required for refueling will increase wear and tear on equipment and roads, increase safety risk, as will continue to waste time and fuel. Units will continue to risk refueling in motor pools not designed for a refueling mission. Safety concerns with backed up vehicles staging on roadways outside the current facilities will continue, and new facilities are the only way to mitigate this risk. I Corps and Special Operations units would fail to receive efficient refueling operations on JBLM.</p> <p>ADDITIONAL: This project meets all applicable DoD criteria including cyber-security and anti-terrorism force protection requirements. The project site is not in a 100-year floodplain. This project has been coordinated with the installation physical security plan, and all physical security measures are included. An economic analysis has been prepared and utilized in evaluating this project. This project is the most cost-effective method to satisfy the requirement.</p>					
12. Supplemental Data:					
A. Estimated Design Data:					
7. Acquisition Strategy:				Design Bid Build	
8. Design Data					
(a) Design or Request for Proposal (RFP) Started:				JAN/2019	
(b) Percent of Design Completed as of Jan 2020 (BY-1):				35%	
(c) Design or RFP Complete:				NOV/2020	
(d) Total Design Cost (\$000):				750	
(e) Energy Study and/or Life Cycle Analysis performed:				No	
(f) Standard or definitive design used?				Yes	
9. Construction Data:					
(a) Contract Award:				MAY/2021	
(b) Construction Start:				JUL/2021	
(c) Construction Complete:				JUL/2023	
B. Equipment associated with this project that will be provided from other appropriations:					
<u>PURPOSE</u>		<u>APPROPRIATION</u>	<u>FISCAL YEAR</u> <u>REQUIRED</u>	<u>AMOUNT (\$000)</u>	
AUTOMATIC TANK GAUGING		DWCF	FY21	62	
Point of Contact is DLA Civil Engineer at 571-767-0631					

1. COMPONENT DEFENSE (DLA)		FY 2021 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYY MMDD) FEBRUARY 2020		
3. INSTALLATION AND LOCATION DEEFENSE FUEL SUPPLY POINT, TSURUMI, JAPAN				4. COMMAND DEFENSE LOGISTICS AGENCY		5. AREA CONSTRUCTION COST INDEX 1.93		
6. PERSONNEL		(1) PERMANENT		(2) STUDENTS		(3) SUPPORTED		(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF YYYYMMDD								0
b. END FY								0
7. INVENTORY DATA (\$000)								
a. TOTAL ACREAGE (acre)							0.00	
b. INVENTORY TOTAL AS OF YYYYMMDD							0.00	
c. AUTHORIZATION NOT YET IN INVENTORY							0.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM							49,500.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM							0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS								
g. REMAINING DEFICIENCY							0.00	
h. GRAND TOTAL							49,500.00	
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	
152	FUEL WHARF		340 SY		49,500	NOV 2017	OCT 2020	
9. FUTURE PROJECTS								
10. MISSION OR MAJOR FUNCTIONS								
<p>Navy Supply Systems Command (NAVSUP) Fleet Logistics Center (FLC) operates the 46-acre Tsurumi Fuel Terminal located in Anzen-cho, Tsurumi-ku, Yokohama City. Tsurumi Fuel Terminal is comprised of two separate operating units, Operating Unit 1 (OU-1) and Operating Unit 2 (OU-2). The terminal primarily receives, stores, and issues direct mission-related fuel (JP-8) to designated customers throughout Japan. The current mission of DFSP Tsurumi is to receive and deliver JP-8 fuel to Yokota Air Base.</p> <p>Deferred sustainment, restoration, and modernization for fuel facilities at this location is \$0.</p>								
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 2021 MILITARY CONSTRUCTION PROJECT DATA			2. Date FEBRUARY 2020	
3. Installation and Location DEEFENSE FUEL SUPPLY POINT, TSURUMI, JAPAN		4. Project Title FUEL WHARF			
5. Program Element 0702976S	6. Category Code 15240	7. Project Number DESC1904	8. Project Cost (\$000) 49,500		
9. COST ESTIMATES					
	Item	U/M	Quantity	Unit Cost	Cost (\$000)
	PRIMARY FACILITIES	-	-	-	24,965
	FUELING WHARF (CC 15240))	SY	340	50.02	(17,007)
	SEAWALL (CC 15430)	LF	750	10.61	(7,958)
	SUPPORTING FACILITIES.....	-	-	-	19,038
	MECHANICAL UTILITIES	LS	-	-	(7,102)
	DREDGING AND DISPOSAL	LS	-	-	(5,676)
	SITE ELECTRICAL UTILITIES	LS	-	-	(3,139)
	SITE IMPROVEMENTS AND PAVEMENTS	LS	-	-	(1,784)
	DEMOLITION	LS	-	-	(1,338)
	SUBTOTAL.....	-	-	-	44,003
	CONTINGENCY (5%).....	-	-	-	<u>2,200</u>
	ESTIMATED CONTRACT COST.....	-	-	-	46,203
	SUPERVISION, INSPECTION & OVERHEAD (SIOH) (6.5%)..	-	-	-	3,003
	DESIGN DURING CONSTRUCTION (DDC).....	-	-	-	<u>229</u>
	TOTAL	-	-	-	49,435
	TOTAL (ROUNDED)	-	-	-	49,500
	REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..	-	-	-	(130)
CURRENCY EXCHANGE RATE: ¥ 107.9114/dollar					
10. Description of Proposed Construction:					
<p>The fuel-handling wharf will be a reinforced concrete platform supported on steel pipe piles including fuel piping, two bollards, two fuel-loading arms and separate pile supported mooring dolphin with steel catwalk and bollard. Rubber arch-type fender systems will be provided with the new fuel handling wharf and mooring dolphin. The wharf includes new stainless steel fuel piping, pipe supports, valves and fittings, two positive displacement stripping pumps, three stationary motorized spill containment boom reels, and four tide risers. The fuel transfer piping will tie into a new static dissipater additive injection system storage tank using existing injectors. The wharf deck elevation will be located above the 100-year floodplain.</p> <p>The seawall work includes a steel sheet pile toe wall, concrete infill along the existing seawall, cathodic protection, and repairs to the existing seawall.</p>					

1. Component DEFENSE (DLA)	FY 2021 MILITARY CONSTRUCTION PROJECT DATA			2. Date FEBRUARY 2020
3. Installation and Location DEEFENSE FUEL SUPPLY POINT, TSURUMI, JAPAN		4. Project Title FUEL WHARF		
5. Program Element 0702976S	6. Category Code 15240	7. Project Number DESC1904	8. Project Cost (\$000) 49,500	

Mechanical utilities include replacing the existing wharf fire protection system, fire water/foam and domestic water systems including salt water/foam solution lines, new hydrants, standpipes, stainless steel piping, fittings, control valves, and supports; high hazard dry chemical fire extinguishers on each side of the loading/unloading arms. The new fire protection system will be installed in covered trenches. New foam/water nozzles will be provided complete with remote control using CCTV's from the security building. Upgrades to the domestic water supply system at the pier include a new water lateral, backflow preventer, water meter, and emergency eyewash and shower. Drainage from the fueling wharf and pipe trench will be directed to a sump and pumped to an existing oil-water separator.

Dredging and disposal in accordance with GOJ regulations is included. Dredging of the existing channel will be to the navigational draft of the T-1 class tanker plus 1.2 meters (4 feet).

Electrical utilities include a new 500 kVA cubicle-type transformer, 416V/240V, 3-phase, 4-wire underground feeder to a new electrical equipment rack, new power and controls for floodlights, fuel stripper pumps, additive injection pump, oil containment boom reels, eyewash/shower heater, eyewash/shower alarm system, fire monitor system, sump pump for fuel/fire line trench and other miscellaneous electrical loads at the wharf; new floodlight and CCTV poles and LED floodlights, new Fire Monitor System controls, CCTV monitoring and related work.

Site Improvements and pavements include storm drainage, new on-shore mooring bollards, steel platform and access walks, containment curbs, concrete pads, concrete trenches for fuel piping and fire protection piping, pavement around fuel operations area, concrete ramp and related work.

Demolition includes existing Wharves 111 and 117, existing fire hose steel support frame, removal of existing fuel piping, fire protection piping system, transformer, floodlights and poles, electric manholes, concrete encased ductline, low voltage circuits, boom reels and concrete pads.

11. **REQUIREMENT:** 340 SQUARE YARDS (SY) **ADEQUATE:** 0 SY **SUBSTANDARD:** 0 SY

PROJECT: This project will modernize the existing berthing facilities by constructing a reinforced concrete fuel-handling wharf, mooring dolphin, and supporting facilities to receive, store and issue fuel. (C)

REQUIREMENT: Navy Supply Systems Command (NAVSUP) Fleet Logistics Center (FLC) operates the 46-acre Defense Fuel Supply Point (DFSP) Tsurumi Fuel Terminal. The DFSP mission is to receive, store, and issue direct mission-related fuel (JP-8) to designated customers throughout Japan. By increasing the capability of the Defense Fuel Supply Point (DFSP) to handle larger T-1 class tankers that have a greater cargo capacity, fuel receipt directly from the refinery will be possible. This will increase the efficiency at both the Tsurumi and

1. Component DEFENSE (DLA)	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEBRUARY 2020
3. Installation and Location DEEFENSE FUEL SUPPLY POINT, TSURUMI, JAPAN		4. Project Title FUEL WHARF	
5. Program Element 0702976S	6. Category Code 15240	7. Project Number DESC1904	8. Project Cost (\$000) 49,500
Hakozaki DFSP's and provide a much needed second refinery delivery point for central and northern Japan.			
CURRENT SITUATION: Tsurumi Fuel Terminal is comprised of two separate operating units, Operating Unit 1 (OU-1) and Operating Unit 2 (OU-2). OU-1 and OU-2 are approximately 0.8 kilometers (0.5 miles) apart, and connected by buried fuel pipelines. Fuel is delivered to OU-1 using coastal barges from DFSP Hakozaki because DFSP Tsurumi lacks the ability to handle deeper draft tankers with larger cargo capacities. Vessels are limited to a cargo capacity up to 12.5 MBBL and a draft of 4.8 meters (15.9 feet) mainly because the existing water depth along the berthing face of the wharf is insufficient to accommodate a fully loaded T-1 class tanker. In addition, there are only a small number of coastal tankers or barges available for receiving and issuing fuel at Tsurumi OU-1. The usefulness of the DFSP Tsurumi facilities is limited and fuel unloading operations are inefficient due to use of smaller barges. The fuel must be loaded to the barges at an intermediate DFSP at Hakozaki. The current barge fuel transfer operation is dangerous, as hoses must extend across the barge and expose hose joints to tidal fluctuations.			
Currently, fueling wharf 111 serves as an unloading point for small Japanese coastal tankers and is the only available berthing facility at Tsurumi OU-1. Fueling wharf 117 is in poor condition, with advanced deterioration with severe concrete cracking and corroded reinforcing steel bars. The stability of the structural members is insufficient against berthing reaction forces from a small coastal tanker or barge and subsequently has been unused for several years.			
IMPACT IF NOT PROVIDED: If the project is not provided, inefficient fueling operations will continue at DFSP Terminals Tsurumi and Hakozaki. Fuel receipt directly from the refinery will not be possible and fuel will continue being double-handled. Major fuel spills and environmental damage from hose joint failures will remain. If Wharf 111 fails, Tsurumi OU-1 will close, severely jeopardizing the mission and ability to provide fuel to Yokota Air Force Base and other fleet and shore units.			
ADDITIONAL: New construction is the only viable alternative to support the capability to accept a T-1 class tanker and eliminate a single point of failure. The upgrades will enable Tsurumi OU-1 to take direct refinery shipments, bypass DFSP Hakozaki, and eliminate double handling by re-loading to a small coastal tanker or barge. The upgrades will enhance overall fuel operations for DFSP Tsurumi and DFSP Hakozaki.			
ADDITIONAL: Sustainable engineering principles will be integrated into the design, development, and construction of the project.			
12. Supplemental Data:			
A. Estimated Design Data:			
1. Acquisition Strategy		Design Bid Build	
2. Design Data			
(a) Design or Request for Proposal (RFP) Started:		NOV/2017	
(b) Percent of Design Completed as of Jan 2020 (BY-1):		35%	
(c) Design or RFP Complete:		OCT/2020	
(d) Total Design Cost (\$000):		2,500	

1. Component DEFENSE (DLA)	FY 2021 MILITARY CONSTRUCTION PROJECT DATA			2. Date FEBRUARY 2020
3. Installation and Location DEEFENSE FUEL SUPPLY POINT, TSURUMI, JAPAN		4. Project Title FUEL WHARF		
5. Program Element 0702976S	6. Category Code 15240	7. Project Number DESC1904	8. Project Cost (\$000) 49,500	
(e) Energy Study and/or Life Cycle Analysis performed: (f) Standard or definitive design used?				Yes No
3. Construction Data: (a) Contract Award: (b) Construction Start: (c) Construction Complete:				SEP/2021 OCT/2021 JAN/2024
B. Equipment associated with this project that will be provided from other appropriations:				
<u>PURPOSE</u>	<u>APPROPRIATION</u>	<u>FISCAL YEAR REQUIRED</u>	<u>AMOUNT (\$000)</u>	
OIL SPILL BOOM	DWCF	FY23	50	
CCTV	DWCF	FY23	80	
Point of Contact is DLA Civil Engineer at 571-767-0631				