

**Defense Logistics Agency
FY 2020 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>
California				
Beale Air Force Base Hydrant Fuel System Replacement	33,700	33,700	C	32
Mississippi				
Columbus Air Force Base Fuel Facilities Replacement	16,800	16,800	C	35
Oklahoma				
Tulsa International Airport Air National Guard Fuels Storage Complex	18,900	18,900	C	39
Rhode Island				
Quonset State Airport Fuels Storage Complex Replacement	11,600	11,600	C	43
South Dakota				
Ellsworth Air Force Base Hydrant Fuel System Replacement	24,800	24,800	C	47
Virginia				
Defense Distribution Depot Richmond Operations Center Phase 2	98,800	98,800	C	51
Wisconsin				
General Mitchell IAP POL Facilities Replacement	25,900	25,900	C	57
Guam				
Joint Region Marianas XRay Wharf Refuel Facilities	19,200	19,200	C	62
Japan				
Yokota Air Base Bulk Storage Tanks Phase 1	116,305	116,305	C	65
Total	366,005	366,005		

1. COMPONENT DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYY MMDD) March 2019				
3. INSTALLATION AND LOCATION BEALE AIR FORCE BASE, CALIFORNIA				4. COMMAND DEFENSE LOGISTICS AGENCY			5. AREA CONSTRUCTION COST INDEX 1.21				
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									33,700.00		
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM									0.00		
f. PLANNED IN NEXT THREE PROGRAM YEARS									14,000.00		
g. REMAINING DEFICIENCY									0.00		
h. GRAND TOTAL									47,700.00		
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	HYDRANT FUEL SYSTEM REPLACEMENT		7 OL		33,700	DEC 2017	NOV 2019				
9. FUTURE PROJECTS											
124	CONSTRUCT BULK FUEL TANK		10,000 BL		14,000	DEC 2020	OCT 2022				
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>											
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 2020 MILITARY CONSTRUCTION PROJECT DATA		2. Date March 2019
3. Installation and Location BEALE AIR FORCE BASE, CALIFORNIA		4. Project Title HYDRANT FUEL SYSTEM REPLACEMENT	
5. Program Element 0702976S	6. Category Code 121122	7. Project Number DESC2004	8. Project Cost (\$000) 33,700

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITIES.....	-	-	-	25,320
HYDRANT OUTLETS & PIPING (CC 121122)	OL	7	1,719,143	(12,034)
FUEL PUMP HOUSE (CC 125977)	GM	1,800	3,075	(5,535)
FUEL STORAGE TANKS AND CONTAINMENT (CC 124135) .	GA	420,000	11.58	(4,864)
LIQUID FUEL STAND, UNLOADING (CC 126926)	OL	2	757,500	(1,515)
LIQUID FUEL TRUCK FILL STAND (CC 126925)	OL	2	686,000	(1,372)
SUPPORTING FACILITIES.....	-	-	-	5,040
SITE PREPARATION	LS	-	-	(2,075)
SITE IMPROVEMENTS	LS	-	-	(2,069)
UTILITIES	LS	-	-	(736)
ELECTRICAL AND COMMUNICATIONS	LS	-	-	(160)
SUBTOTAL.....	-	-	-	30,360
CONTINGENCY (5%).....	-	-	-	<u>1,518</u>
ESTIMATED CONTRACT COST.....	-	-	-	31,878
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	<u>1,817</u>
TOTAL	-	-	-	33,695
TOTAL (ROUNDED)	-	-	-	33,700
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..	-	-	-	(160)

10. Description of Proposed Construction:

The project will construct a new Type III Hydrant System with two 5,000-barrel aboveground storage tanks, hydrant loop, and 1,800-gpm pump house. The new pump house will connect issue and return piping to the new airfield hydrant fuel loop. Primary means of fuel delivery to the project site will be by the existing transfer pipeline from the existing bulk fuel storage area on the installation which will be modified under this project.

The project will include hydrant outlets, piping and related pipe appurtenances, cathodic protection, fuel pump house control room and shelter with pumps, filter separators and related piping, valves and fittings, fuel storage with containment, access walks/stairs, truck fill stands, truck unloads, hydrant hose truck (HHT) checkout stand, and product recovery tank. Supporting facilities include site clearing & grading; site improvements for access roads, parking, secondary containment, drainage, utility improvements, pig launcher and receiver stations, pavement and markings, and security fencing.

Electrical and communications work includes the control systems, underground primary and secondary service, communications, pad mounted transformers, emergency generator, site lighting, automatic tank gauging system, grounding & lighting protection, emergency power down switches, pump connections and demolition/rerouting of existing electrical utilities.

Anti-Terrorism Force Protection (ATFP), cyber-security and sustainable design principles will

1. Component DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROJECT DATA		2. Date March 2019	
3. Installation and Location BEALE AIR FORCE BASE, CALIFORNIA			4. Project Title HYDRANT FUEL SYSTEM REPLACEMENT		
5. Program Element 0702976S		6. Category Code 121122	7. Project Number DESC2004	8. Project Cost (\$000) 33,700	
be incorporated into the design and construction.					
11. REQUIREMENT: 7 OUTLETS (OL) ADEQUATE: 0 OL SUBSTANDARD: 18 OL PROJECT: Replace obsolete and non-code compliant hydrant fuel system and operational fuel storage tanks with a modern pressurized fuel system and operational fuel storage tanks. (C) REQUIREMENT: Replace the underground fuel storage tanks (USTs) per California law to remove all UST's by 2025. CURRENT SITUATION: The existing 1952-era underground tanks that supply the airfield hydrant system are near the end of their useful life. The USTs are no longer exempt from Federal regulatory requirements. The State of California, as the regulatory authority, has informed DLA the USTs are out of environmental compliance and require removal before 1 January 2025. The existing hydrant system will not function without the USTs. In addition, the existing pump house is an airfield obstruction and operates under a waiver. The current facilities are operational but degradation of the eight 50K gallon USTs indicates capability failure of the tanks is imminent. IMPACT IF NOT PROVIDED: Closure and removal of the existing tanks will result in the loss of a functioning airfield hydrant system and total reliance on fuel truck delivery. Fuel truck refueling operations will significantly slow aircraft fueling operations. ADDITIONAL: This facility can be used by other components on an "as available" basis however, the project scope is based on Air Force requirements. Design will comply with Unified Facilities Criteria. Sustainable principles include life cycle cost effective practices will be integrated into design and construction. This project will meet all applicable DoD criteria to include cyber-security. This site is not located in a floodplain. This project was included in the prior year's future-years defense program.					
12. Supplemental Data:					
A. Estimated Design Data:					
1. Acquisition Strategy				Design Bid Build	
2. Design Data					
(a) Design or Request for Proposal (RFP) Started:				DEC/2017	
(b) Percent of Design Completed as of Jan 2019 (BY-1):				35%	
(c) Design or RFP Complete:				NOV/2019	
(d) Total Design Cost (\$000):				772	
(e) Energy Study and/or Life Cycle Analysis performed:				Yes	
(f) Standard or definitive design used?				Yes	
3. Construction Data:					
(a) Contract Award:				MAR/2020	
(b) Construction Start:				MAY/2020	
(c) Construction Complete:				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	2020	160	
Point of Contact is DLA Civil Engineer at 571-767-0631					

1. COMPONENT DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYY MMDD) March 2019					
3. INSTALLATION AND LOCATION COLUMBUS AIR FORCE BASE, MISSISSIPPI			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										16,800.00	
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										16,800.00	
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			
124135	FUEL FACILITIES REPLACEMENT			150,000 GA		16,800		JAN 2018		SEP 2019	
9. FUTURE PROJECTS											
10. MISSION OR MAJOR FUNCTIONS											
Columbus Air Force Base is home of the 14th Flying Training Wing (FTW) of Air Education and Training Command's 19th Air Force. The 14th FTW mission statement is "Produce Pilots, Advance Airmen, Feed the Fight." The wing's mission is specialized undergraduate pilot training in the T-6 Texan II, T-38C Talon, and T-1A Jayhawk aircraft. Each day the wing flies an average of 260 sorties on its three parallel runways. In addition to the flying training mission, Columbus AFB maintains more than 900 highly trained individuals capable of deploying at a moment's notice to support worldwide taskings and contingencies.											
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 2020 MILITARY CONSTRUCTION PROJECT DATA	2. Date MARCH 2019
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3. Installation and Location COLUMBUS AIR FORCE BASE, MISSISSIPPI	4. Project Title FUEL FACILITIES REPLACEMENT
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5. Program Element 0702976S	6. Category Code 124135	7. Project Number DESC19S4	8. Project Cost (\$000) 16,800
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9. COST ESTIMATES				
Item	U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITIES	-	-	-	11,281
OPERATING STORAGE JET FUEL (CC 124135)	GA	150,000	34.52	(5,178)
FILTER SHELTER (CC 125977)	GM	2,400	1,237.5	(2,970)
LIQUID FUEL TRUCK FILL STAND (CC 126925)	OL	2	1,077,000	(2,154)
LIQUID FUEL STAND, UNLOADING (CC 126926)	OL	1	979,000	(979)
SUPPORTING FACILITIES	-	-	-	3,830
MECHANICAL WORK	LS	-	-	(2117)
SITE IMPROVEMENTS	LS	-	-	(832)
ELECTRICAL WORK	LS	-	-	(826)
SITE PREPARATION AND DEMOLITION	LS	-	-	(55)
SUBTOTAL	-	-	-	15,111
CONTINGENCY (5%)	-	-	-	<u>756</u>
ESTIMATED CONTRACT COST	-	-	-	15,867
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	<u>904</u>
TOTAL	-	-	-	16,771
TOTAL (ROUNDED)	-	-	-	16,800
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..				(367)

10. Description of Proposed Construction:

Construct a new fueling facility consisting of aboveground horizontal storage tanks with tank-mounted pumps, filter separator shelter with receipt and issue filtration, truck fill stands, truck unload, product recovery tank, and associated infrastructure. The project also includes the replacement of the existing transfer pumps, located at the existing bulk fuel facility, along with other related mechanical and electrical modifications.

The new horizontal aboveground double-walled storage tanks are 50,000 gallons each, providing a total of 150,000 gallons at the new facility. Each tank is equipped with 600-gpm vertical turbine pumps and a water draw-off system and includes an automatic tank gauge, level alarms, a high-level shutoff valve and all other associated piping and appurtenances.

The new filter shelter consists of a pre-engineered steel shelter with open sides, a reinforced concrete slab on grade with containment curb, 1,200-gpm receipt filter separators, and 1,200-gpm issue filter separators, aboveground double-wall product recovery tank and all necessary piping, pumps, valves, and appurtenances.

The new truck fill stands include all necessary mechanical equipment, pumps, grounding, spill containment, piping, and valves.

The new truck unload position includes a skid-type design capable of receiving fuel at 600-gpm. The skid will be equipped with unload connections and hoses, basket strainer with

1. Component DEFENSE (DLA)	FY 2020 MILITARY CONSTRUCTION PROJECT DATA		2. Date MARCH 2019
3. Installation and Location COLUMBUS AIR FORCE BASE, MISSISSIPPI		4. Project Title FUEL FACILITIES REPLACEMENT	
5. Program Element 0702976S	6. Category Code 124135	7. Project Number DESC19S4	8. Project Cost (\$000) 16,800
<p>differential pressure gauge, sample connection, air eliminator tank, vertical inline centrifugal pump, flow switch, flow meter, control valves, pressure gauges, valves, and all other associated appurtenances.</p> <p>Mechanical work includes new aboveground stainless steel transfer piping that ties to the existing transfer line and runs between the filter shelter, operating tanks, fill stands and unload point. Provide connections for a temporary pigging system near the tie-in location. At the existing Bulk Fuels facility, demolish two existing transfer pumps and modify piping to provide new 600-gpm pumps to transfer fuel to the new fueling system through the existing transfer line.</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>Site electrical work includes cathodic protection, canopy and site lighting, primary and secondary service and connections, transformers, automatic tank gauging systems, lightning protection, grounding, communications, 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>			
11. REQUIREMENT: 150,000 GALLONS (GA) ADEQUATE: 0 GA SUBSTANDARD: 0 GA			
PROJECT: Provide a new operating truck fueling facility with operating fuel storage tanks, fill stands, unload point, and upgraded bulk fuel transfer pumps.			
REQUIREMENT: A fully functional and maintainable fueling system located close to the flight line that provides an uninterrupted supply of fuel to support the wing's pilot training mission.			
CURRENT SITUATION: The flight line fill stands are currently served from the adjacent Type II hydrant system. This system was constructed in 1959 and includes eight 50,000 gallon, single wall, underground storage tanks (USTs), pump shelter, control room and underground piping system serving four inactive hydrant positions. The hydrant system is severely degraded and has exceeded its expected life cycle. Although the Mississippi Department of Environmental Quality (MDEQ) Underground Storage Tank Regulations grant deferrals to airport hydrant fuel distribution systems, the hydrant system is inoperable and is no longer exempt under the hydrant deferral, and the base is vulnerable to notice of violations (NOVs). Furthermore, the base currently pays the MDEQ tank regulatory fees an annual payment of \$100 per tank/\$1,100 per year.			
Following successful construction and commissioning of the new fueling system, the existing flight line fill stands, its pump house, control room, USTs, and hydrant system will no longer be required and should be removed as part of a separate project. This will eliminate all inspections and maintenance costs associated with the existing hydrant system, USTs, and pump house.			

1. Component DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROJECT DATA		2. Date MARCH 2019	
3. Installation and Location COLUMBUS AIR FORCE BASE, MISSISSIPPI			4. Project Title FUEL FACILITIES REPLACEMENT		
5. Program Element 0702976S		6. Category Code 124135	7. Project Number DESC19S4	8. Project Cost (\$000) 16,800	
<p>IMPACT IF NOT PROVIDED: The existing flight line pump house facility will require extensive repair and maintenance to remain operational. In addition, the existing underground tanks will continue to require frequent inspections and payment of regulatory fees. Without a major system upgrade, the hydrant system will continue to degrade to the point of failure. The Base will be vulnerable to NOV's issued by the MDEQ. System failure will result in the need to utilize fill stands at the bulk storage facility located off the flight line. This will greatly increase the time required to refuel aircraft and significantly decrease the sortie generation rate, ultimately impacting the pilot training mission.</p> <p>ADDITIONAL: This project meets all applicable DoD criteria including cyber-security 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. This project was included in the prior year's future-years defense program.</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/2018	
(b) Percent of Design Completed as of Jan 2019:				35%	
(c) Design or RFP Complete:				SEP/2019	
(d) Total Design Cost (\$000):				\$1,359	
(e) Energy Study and/or Life Cycle Analysis performed:				No	
(f) Standard or definitive design used?				No	
3. Construction Data:					
(a) Contract Award:				MAR/2020	
(b) Construction Start:				MAY/2020	
(c) Construction Complete:				MAY/2022	
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	2020	367	
Point of Contact is DLA Civil Engineer at 571-767-0631					

1. COMPONENT DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYY MMDD) March 2019					
3. INSTALLATION AND LOCATION TULSA INTERNATIONAL AIRPORT ANG, TULSA, OKLAHOMA			4. COMMAND DEFENSE LOGISTICS AGENCY			5. AREA CONSTRUCTION COST INDEX 0.87					
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										18,900.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										0.00	
h. GRAND TOTAL										18,900.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE			(3) SCOPE				(1) START	(2) COMPLETE		
124	FUELS STORAGE COMPLEX			150,000 GA		18,900		DEC 2017	OCT 2019		
9. FUTURE PROJECTS											
10. MISSION OR MAJOR FUNCTIONS											
<p>The Tulsa International Airport is the home of the 138th Fighter Wing of the Oklahoma Air National Guard. The mission of the 138th Fighter Wing is to attain and maintain operational readiness; provide combat capability; and recruit and train toward these goals. The wing operates twenty four F-16 fighter aircraft. The wing supports training of Joint Terminal Attack Controllers at Camp Gruber, and provides aircraft, pilots and support crew for the air defense mission based located at Ellington ANG Base, Houston, TX.</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 2020 MILITARY CONSTRUCTION PROJECT DATA	2. Date March 2019
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3. Installation and Location TULSA INTERNATIONAL AIRPORT AIR NATIONAL GUARD, TULSA, OKLAHOMA	4. Project Title FUELS STORAGE COMPLEX
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5. Program Element 0701111S	6. Category Code 124135	7. Project Number DESC1912	8. Project Cost (\$000) 18,900
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9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITIES.....	-	-	-	9,751
FUEL STORAGE: JET-A (CC 124135)	GA	150,000	16.27	(2,440)
FILTER SEPARATOR FACILITY (CC 125977)	SF	3,750	597	(2,238)
CONTROL BUILDING (CC 121124)	SF	976	1,585	(1,547)
FUEL OPERATIONS BUILDING (CC 121111)	SF	2,450	511	(1,252)
VEHICLE FUELING STATION (CC 123335)	OL	4	186,750	(747)
LIQUID FUEL STAND UNLOADING (CC 126926)	OL	2	208,500	(417)
FUEL STORAGE: DIESEL (CC 124134)	GA	8,000	47	(373)
FUEL STORAGE: MOGAS (CC 124137)	GA	8,000	47	(373)
LIQUID FUEL TRUCK FILL STAND (CC 126925)	OL	2	182,000	(364)
SUPPORTING FACILITIES.....	-	-	-	7,242
SITE PREPARATION AND IMPROVEMENTS	LS	-	-	(3,668)
UTILITIES	LS	-	-	(1,643)
ELECTRICAL AND COMMUNICATIONS	LS	-	-	(1,300)
FUEL SYSTEMS AND PIPING	LS	-	-	(631)
SUBTOTAL.....	-	-	-	16,993
CONTINGENCY (5%).....	-	-	-	<u>850</u>
ESTIMATED CONTRACT COST.....	-	-	-	17,843
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	<u>1,018</u>
TOTAL	-	-	-	18,861
TOTAL (ROUNDED)	-	-	-	18,900
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..	-	-	-	(160)

10. Description of Proposed Construction:

The project will construct a new fuel complex consisting of a new aviation fueling facility and vehicle fueling station. The Aviation fueling system contains a fuels storage distribution point with new 50,000 gallon aboveground operating storage tanks, 600-gpm pumps, 1,200-gpm filter separators, 600-gpm truck unload skids, 600-gpm truck fill stands, support piping and instrumentation. The vehicle fueling station consists of aboveground diesel and mogas storage tanks, fuel dispenser islands, support piping and instrumentation and a POL operations building.

Control buildings include a bulk fuel control building, a vehicle fueling station control building, and a R-11 maintenance building.

Canopies shall be provided for the filter separator facility, truck unloads, fuel truck fill stands, and the vehicle fueling station.

Site Improvements include site clearing and grading, access roads, paving and refueler parking, secondary containment, storm drainage, and security fencing and gates.

Utilities include water, wastewater, gas service and all connections. Electrical and

1. Component DEFENSE (DLA)	FY 2020 MILITARY CONSTRUCTION PROJECT DATA		2. Date March 2019
3. Installation and Location TULSA INTERNATIONAL AIRPORT AIR NATIONAL GUARD, TULSA, OKLAHOMA		4. Project Title FUELS STORAGE COMPLEX	
5. Program Element 0701111S	6. Category Code 124135	7. Project Number DESC1912	8. Project Cost (\$000) 18,900
<p>communications work includes the control systems, primary and secondary service, communications, pad mounted transformers, emergency generator, site lighting, automatic tank gauging system, and grounding & lighting protection.</p> <p>Anti-Terrorism Force Protection (ATFP), cyber-security and sustainable design principles will be incorporated into the design and construction.</p>			
<p>11. REQUIREMENT: 150,000 GAL ADEQUATE: 0 EA SUBSTANDARD: 0 GAL</p>			
<p>PROJECT: Construct Fuel Storage and operations complex (C)</p> <p>REQUIREMENT: A permanently constructed, adequately sized, functionally configured, environmentally compliant, reliable system for the receiving, storage and issue of aviation and ground fuel products in support of the aircraft and supporting vehicle fleet of the 138th Fighter Wing (FW) of the Oklahoma Air National Guard and Army Aviation Support Facility of the Oklahoma Army National Guard.</p> <p>CURRENT SITUATION: The 138th FW presently has no organic real property facilities for the receipt, storage or issue of aviation jet fuel. Mission jet fuel requirements are only marginally met by a local fixed base operator (FBO) that also supports the scheduled airlines serving the airport along with executive and private customers.</p> <p>The FBO has a fueling station which serves commercial customers as well as the 138th FW. A round trip to the FBO to load and return to the ANG aircraft parking apron requires between 60 and 75 minutes to complete. Fuel quality from the FBO is a concern with testing revealing that the FBO has periodically provided out of military specification product.</p> <p>Storage capability of the FBO is 40,000 gallons total, and once this fuel is exhausted the ANG has no refueling capability until the supplier can re-stock. These tanks also serve the requirements of the scheduled airlines whose "purchased/guaranteed fuel" can further limit the quantity of fuel available for military support.</p> <p>The refueling vehicles park on the aircraft parking apron, and the amount of space allotted to park the refueling vehicles does not allow them to meet the DoD safety separation distances. Due to the arrangement of the parking apron the refueling vehicles must violate standard safety practices while moving to refuel aircraft.</p> <p>The existing POL Operations offices are in a larger base support facility that is not in close proximity to any of the assets for which this functional area has responsibility.</p> <p>The installation currently has a vehicle fueling station consisting of a 5,000-gallon diesel and 5,000-gallon MOGAS tank. These tanks are located within the fenced vehicle maintenance compound that does not offer necessary 24/7 access. The fueling station lacks secondary containment, site lighting, overfill protection, stairs, and walkways to access the top of the tanks, and emergency stop controls.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided operational capabilities of the 138th Fighter Wing will continue to be negatively impacted. Safety and fuel quality procedures will continue to operate under waivers; and the likelihood of an accident involving the fueling operations remains elevated.</p>			

1. Component DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROJECT DATA		2. Date March 2019	
3. Installation and Location TULSA INTERNATIONAL AIRPORT AIR NATIONAL GUARD, TULSA, OKLAHOMA			4. Project Title FUELS STORAGE COMPLEX		
5. Program Element 0701111S		6. Category Code 124135	7. Project Number DESC1912	8. Project Cost (\$000) 18,900	
<p>ADDITIONAL: This project has been coordinated with the installation physical security plan, and all appropriate 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.</p> <p>Design will comply with DoD 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 100-year floodplain. This project was included in the prior year's future-years defense program.</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:				DEC/2017	
(b) Percent of Design Completed as of Jan 2019:				35%	
(c) Design or RFP Complete:				OCT/2019	
(d) Total Design Cost (\$000):				772	
(e) Energy Study and/or Life Cycle Analysis performed:				Yes	
(f) Standard or definitive design used?				Yes	
3. Construction Data:					
(a) Contract Award:				MAR/2020	
(b) Construction Start:				MAY/2020	
(c) Construction Complete:				OCT/2022	
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	160	
Point of Contact is DLA Civil Engineer at 571-767-0631					

1. COMPONENT DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYY MMDD) March 2019			
3. INSTALLATION AND LOCATION QUONSET STATE AIRPORT, RHODE ISLAND			4. COMMAND DEFENSE LOGISTICS AGENCY			5. AREA CONSTRUCTION COST INDEX 1.17			
6. PERSONNEL	(1) PERMANENT		(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	
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								11,600.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM								0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS								0.00	
g. REMAINING DEFICIENCY								0.00	
h. GRAND TOTAL								11,600.00	
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	FUELS STORAGE COMPLEX REPLACEMENT		1,571 SF		11,600	JAN 2018	SEP 2019		
9. FUTURE PROJECTS									
10. MISSION OR MAJOR FUNCTIONS									
<p>This project, for the Quonset Point ANGB hosts the 143rd Airlift Wing (AW). As part of the Air Mobility Command, the 143rd AW continues to be called upon to support State, Federal, and UN activities throughout the world. Volunteers from the 143rd AW have participated in many United Nations relief missions and under the Air Force, the Wing has participated in five Expeditionary Air Force (EAF) cycles. The 143rd AW provides air logistics support pursuant to its missions.</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 2020 MILITARY CONSTRUCTION PROJECT DATA	2. Date MARCH 2019
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3. Installation and Location QUONSET STATE AIRPORT, RHODE ISLAND	4. Project Title FUELS STORAGE COMPLEX REPLACEMENT
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5. Program Element 0702976S	6. Category Code 121124	7. Project Number DESC20S1	8. Project Cost (\$000) 11,600
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9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITIES	-	-	-	7,326
PUMP HOUSE AND CONTROL ROOM (CC 121124)	SF	1,571	3,069	(4,821)
LIQUID FUEL TRUCK FILL STAND (CC 126925)	OL	2	644,000	(1,288)
LIQUID FUEL STAND, UNLOADING (CC 126926)	OL	2	608,500	(1,217)
SUPPORTING FACILITIES	-	-	-	3,116
SITE IMPROVEMENTS	LS	-	-	(1,301)
CIVIL & MECHANICAL UTILITIES AND STORM DRAINAGE	LS	-	-	(754)
SITE ELECTRICAL AND COMMUNICATIONS	LS	-	-	(445)
DEMOLITION AND SITE PREPARATION	LS	-	-	(407)
TEMPORARY FUELING FACILITY	LS	-	-	(209)
SUBTOTAL	-	-	-	10,442
CONTINGENCY (5%)	-	-	-	<u>522</u>
ESTIMATED CONTRACT COST	-	-	-	10,964
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	<u>625</u>
TOTAL	-	-	-	11,589
TOTAL (ROUNDED)	-	-	-	11,600
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..				(50)

10. Description of Proposed Construction:

Construct a new fuels complex that includes a pump house with a control room, product recovery tank, refueling vehicle parking, truck loading and unload points, and supporting facilities. The new fuel facility will supply the refueling trucks that service the airfield. Anti-terrorism (AT/FP), cyber-security, and sustainable design principles are incorporated into the design and construction.

The new pump house contains 300-gpm pumps, 600-gpm receipt filter separators, 300-gpm issue filter separators, and all related piping, piping supports, pumps, valves, and appurtenances. The pump house includes a control room, pump room, mechanical room, as well as emergency shut-off switches, emergency shower and eyewash, HVAC, fire sprinklers, alarms, bridge crane, pump controls, grounding and lightning protection, communications and data infrastructure, leak detection systems, aboveground double-wall product recovery tank and all associated piping, pumps, valves, and appurtenances.

New truck unloading points and fill stands includes refueler truck load and unload areas well as all necessary mechanical equipment, pumps, grounding, spill containment, and piping.

Site improvements include, fencing and gates, signage, landscaping, sidewalks, paving and concrete pavement for access drives, roads, parking, pavement markings and canopies for the fuel unloading and fill stands.

Civil and mechanical work includes but is not limited to pipes, valves and appurtenances between the pump house, truck unloading, fill stands, and existing tanks. Provide new

1. Component DEFENSE (DLA)	FY 2020 MILITARY CONSTRUCTION PROJECT DATA			2. Date MARCH 2019
3. Installation and Location QUONSET STATE AIRPORT, RHODE ISLAND		4. Project Title FUELS STORAGE COMPLEX REPLACEMENT		
5. Program Element 0702976S	6. Category Code 121124	7. Project Number DESC20S1	8. Project Cost (\$000) 11,600	
nozzles, isolation valves, supports, and other necessary components, in addition to all work necessary to upgrade the existing fuel storage tanks. Utilities and storm drainage include connections to support water, gas, and sewer requirements, stormwater management, storm drainage, oil water separators, pipes, and other necessary work.				
Site electrical and communications work includes area lighting, generator, cathodic protection, building lighting, transformers, automatic tank gauging systems, lightning protection, grounding, communications, emergency fuel shut off systems, and control stations.				
Demolition and site preparation includes demolition of building 18 (140 SF), building 19 (800 SF), truck fill stands and unload positions, fencing and gates, lighting poles and foundations, and all associated piping and equipment. Site preparation includes site clearing and grading, and demolition of pavements.				
Provide a temporary truck fueling area to maintain fuel issue and receipt capabilities of the site during construction of the project, to include temporary piping and spill containment.				
11. REQUIREMENT: 1,571 SQUARE FEET (SF) ADEQUATE: 0 SF SUBSTANDARD: 940 SF				
PROJECT: Replace an obsolete fuel system with a modern system, including a new pump house, fill stands, and unload points. (C)				
REQUIREMENT: This project is required to repair and modernize the 143rd Airlift Wing's (AW) existing fuel storage complex so that it is functionally configured, environmentally compliant, and reliable to refuel its fleet of C-130 cargo aircraft. The new complex must allow simultaneous operation of fuel unloading and truck filling.				
CURRENT SITUATION: The Quonset Air National Guard fuels storage complex includes two 2,500 barrel aboveground storage tanks, an open sided pump shelter with issue and receipt pumps and filter separators, two truck fill stand positions, two truck unload positions, and an aboveground product recovery tank. Although there are two sets of fill stand and unload equipment, only one truck servicing operation can occur at a time due to the tight equipment configuration. The majority of the equipment and buildings in the fuels storage complex were built in 1982 and have exceeded the typical life expectancy of 25 years for liquid fuels equipment. Due to age of the facilities, both maintenance costs and man-hours to complete the mission have increased over time and replacement parts are difficult to obtain. Overall, the POL storage complex does not comply with Unified facilities Criteria (UFC) for system features, redundancy, and operational requirements. The complex does not comply with Clean Water Act requirements or state laws, and was specifically required to be updated by 2012 in the State Storm Water permit.				
The configuration of the truck fill stand and unload equipment only allow service to one truck at a time. The UFC requires redundancy for both fill stand and unloading operations. If the mission requires a quick-turn fill while a commercial truck is unloading, the truck must disconnect and back out of the way to allow R-11 refueling. This process causes significant POL mission delays which then impact wing operations. This single point of failure was identified as a having high potential for spills and/or damage to government property. In addition to fill stand and unload operational limitations, there are numerous UFC and code related deficiencies. The fueling equipment and the pump shelter structure at Building 19 was				

1. Component DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROJECT DATA		2. Date MARCH 2019	
3. Installation and Location QUONSET STATE AIRPORT, RHODE ISLAND			4. Project Title FUELS STORAGE COMPLEX REPLACEMENT		
5. Program Element 0702976S		6. Category Code 121124	7. Project Number DESC20S1	8. Project Cost (\$000) 11,600	
<p>constructed in 1982. The equipment, building, and electrical lighting have not received any major updates in 30 years, resulting in high maintenance costs and increased downtime. The existing pump shelter does not provide protection from the elements and subjects the equipment to corrosive oceanic atmospheric conditions, significantly reducing equipment life expectancy.</p> <p>IMPACT IF NOT PROVIDED: Without this project, the fuels storage complex will continue to delay or cancel 143rd Airlift Wing flights, will not comply with environmental laws, and will have increasing maintenance costs. Additionally, POL and maintenance personnel will continue working under documented safety violations that could have negative mission impact. The area will continue to have fuel spills which will subject the Base to notice of violations and fines or permit revocation for failure to comply with conditions outlined in the 2010 storm water permit. The outdated system does not comply with current UFC, NFPA, and NEC codes causing an increase in safety concerns and a decrease in mission efficiency. Because of the code violations, the storage system has major points of failure that if not addressed, will increase the likelihood of mission failure.</p> <p>ADDITIONAL: This project meets all applicable DoD criteria including cyber-security. This project has been coordinated with the installation physical security plan, and all physical security and antiterrorism protection measures are included. The entire base and this project is within the 100-year floodplain and there is no alternative location outside of the floodplain. As dictated by local building codes, the finished floor elevation of the pump house will be two feet higher than the 100-year floodplain elevation and top of curb elevations will be above the 100-year floodplain elevation. This project was included in the prior year's future-years defense program.</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 2019:				35%	
(c) Design or RFP Complete:				SEP/2019	
(d) Total Design Cost (\$000):				844	
(e) Energy Study and/or Life Cycle Analysis performed:				No	
(f) Standard or definitive design used?				Yes	
6. Construction Data:					
(a) Contract Award:				MAR/2020	
(b) Construction Start:				APR/2020	
(c) Construction Complete:				APR/2022	
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	2020	50	
Point of Contact is DLA Civil Engineer at 571-767-0631					

1. COMPONENT DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYY MMDD) March 2019				
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA			4. COMMAND DEFENSE LOGISTICS AGENCY			5. AREA CONSTRUCTION COST INDEX 1.04				
6. PERSONNEL		(1) PERMANENT		(2) STUDENTS			(3) SUPPORTED		(4) TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER		ENLISTED
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									24,800.00	
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									24,800.00	
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	HYDRANT FUEL SYSTEM REPLACEMENT			840,000 GA		24,800	JUL 2017	OCT 2019		
9. FUTURE PROJECTS										
10. MISSION OR MAJOR FUNCTIONS										
<p>Ellsworth AFB is the home of the 28th Bomb Wing, which is under the Air Force Global Strike Command (AFGSC). The mission of the 28th Bomb Wing is to guarantee our Nation's expeditionary combat power – anywhere on the globe. As one of the B-1B bases, the 28th provides combat ready B-1B aircrews for worldwide tasks, including conventional operations and power projection. Airmen in the 28th fly the B1-B, plan and support combat operations, and develop deployment plans. In addition, the wing is home to the 432nd Attack Squadron, which controls the MQ-9 Reaper remotely piloted aircraft.</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 2020 MILITARY CONSTRUCTION PROJECT DATA	2. Date MARCH 2019
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3. Installation and Location ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA	4. Project Title HYDRANT FUEL SYSTEM REPLACEMENT
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5. Program Element 0702976S	6. Category Code 124135	7. Project Number DESC1913	8. Project Cost (\$000) 24,800
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9. COST ESTIMATES				
Item	U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITIES	-	-	-	20,185
OPERATING STORAGE TANKS (CC 124135)	GA	840,000	8	(7,056)
PUMP HOUSE (CC 121124)	SF	4,950	1,349.2	(6,679)
POL PIPELINE SYSTEM (CC 125210)	LF	4,000	1,075	(4,300)
PIPELINE LIQUID FUELS (CC 125554)	LF	2,000	1,075	(2,150)
SUPPORTING FACILITIES	-	-	-	2,078
SITE ELECTRICAL & COMMUNICATIONS	LS	-	-	(1,248)
CIVIL & MECHANICAL UTILITIES	LS	-	-	(307)
PAVEMENTS	LS	-	-	(269)
SITE PREPARATION & IMPROVEMENTS	LS	-	-	(254)
SUBTOTAL ..	-	-	-	22,263
CONTINGENCY (5%) ...	-	-	-	<u>1,113</u>
ESTIMATED CONTRACT COST ...	-	-	-	23,376
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	<u>1,332</u>
TOTAL	-	-	-	24,708
TOTAL (ROUNDED)	-	-	-	24,800
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..				(175)

10. Description of Proposed Construction:

Construct a fuel system with primary facilities consisting of above-ground operating storage tanks with concrete containment, access catwalks, and stairs; a Type III hydrant fueling pump house with control room, and piping to/from tanks, pump house, existing fill stands & hydrant hose truck checkout stand, and product recovery tank. The pump house and filter buildings contain 600-gpm pumps, issue filter separators, receipt filter separators, all with backups, and including associated valves, piping and fittings; fire alarms and panel, communications, alarm systems, and associated mechanical and electrical systems/work with a double wall above-ground product recovery tank.

Supporting facilities site electrical and communications work include the control systems, underground primary and secondary service, communications, pad mounted transformers, emergency generator, site lighting, automatic tank gauging system, grounding & lightning protection, emergency power down switches, and pump connections.

Civil & mechanical utilities include site water, sanitary sewer, storm drainage, and related work. Site preparation & improvements include clearing/grubbing, fencing and miscellaneous demolition, walks, fencing, bollards, and related work. Pavement includes POV parking, access

1. Component DEFENSE (DLA)	FY 2020 MILITARY CONSTRUCTION PROJECT DATA		2. Date MARCH 2019
3. Installation and Location ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA		4. Project Title HYDRANT FUEL SYSTEM REPLACEMENT	
5. Program Element 0702976S	6. Category Code 124135	7. Project Number DESC1913	8. Project Cost (\$000) 24,800
drives, containment curbs, and equipment pads.			
11. REQUIREMENT: 840,000 GALLONS (GA) ADEQUATE: 0 GA SUBSTANDARD: 0 GA			
PROJECT: Construct Type III Hydrant System, Pump House and Tanks. (C)			
<p>REQUIREMENT: Adequate equipment and controls to deliver clean, dry fuel and serve as a primary means of fuel delivery to hydrants at 90 Row and 100 Row for the north ramp hangars and the Live Ordinance Loading Area (LOLA) and a backup means of fuel delivery for 70 Row and 80 Row hydrants in support of large aircraft. Adequate fuel supply is required to expedite safe and efficient generation of aircraft sorties. The hydrant system for large aircraft requires a flow rate of 2,400-gpm.</p>			
<p>CURRENT SITUATION: Aside from truck refueling options, the only backup to the existing CASS (modified) Type III hydrant system are three antiquated Type I systems on the south ramp. These facilities are in need of constant maintenance to keep them operational. Back-up systems do not adequately support mission requirements as aircraft cannot approach and leave fueling locations under their own power and must be towed to and from a refueling location on the south ramp. These facilities are in need of constant maintenance to keep them operational and are in violation of airfield safety criteria being susceptible to damage by aircraft.</p>			
<p>IMPACT IF NOT PROVIDED: Without providing the proposed pump house and tanks, the CASS fueling system will be relied on to continue to serve the entire north ramp. The branched arrangement of the hydrant piping will continue to induce operating stresses on the CASS pump house, resulting in higher operational costs and frequent maintenance to prevent system failure. Without redundancy in the existing CASS fueling system, any maintenance activities or system failure renders all fuel pits on the north ramp unusable, necessitating all refueling on the north ramp to occur by truck, increasing manpower efforts and aircraft turn times. Hydrant servicing provides a quicker and more reliable method of moving large volumes of fuel versus using refueling vehicles. Diverting refueling operations to the Type I systems on the south ramp could have additional operational impact as those systems are aged (60 years +) and experience more frequent outages. During outages of the CASS system, fueling on the north ramp will be forced to continue via refueling truck, which is not as safe or reliable as a hydrant system, and increases the possibility of fuel spills and accidents during truck operation.</p>			
<p>ADDITIONAL: Providing the proposed pump house and associated storage tanks splits the fueling requirements at the north ramp under normal operation but will allow either the new Type III system or the CASS system to supply the entire loop. This achieves the goal of reducing operating stress on the CASS pump house and results in redundancy and operational flexibility, which cannot be matched by any alternative.</p>			
<p>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. This project was included in the prior</p>			

1. Component DEFENSE (DLA)	FY 2020 MILITARY CONSTRUCTION PROJECT DATA	2. Date MARCH 2019
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3. Installation and Location ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA	4. Project Title HYDRANT FUEL SYSTEM REPLACEMENT
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5. Program Element 0702976S	6. Category Code 124135	7. Project Number DESC1913	8. Project Cost (\$000) 24,800
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year's future-years defense program.

12. Supplemental Data:

A. Estimated Design Data:

1. Acquisition Strategy	Design Bid Build
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2. Design Data	
(a) Design or Request for Proposal (RFP) Started:	JUL/2017
(b) Percent of Design Completed as of Jan 2019:	35%
(c) Design or RFP Complete:	OCT/2019
(d) Total Design Cost (\$000):	1,138
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used?	Yes

3. Construction Data:	
(a) Contract Award:	MAR/2020
(b) Construction Start:	MAY/2020
(c) Construction Complete:	OCT/2022

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	2021	175

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

1. COMPONENT DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYY MMDD) March 2019				
3. INSTALLATION AND LOCATION DEFENSE DISTRIBUTION DEPOT RICHMOND, VA			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									98,880.00	
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									98,880.00	
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	
610	OPERATIONS CENTER PH2		281,075 SF			98,800		DEC 2017	JAN 2020	
9. FUTURE PROJECTS										
10. MISSION OR MAJOR FUNCTIONS										
DLA Aviation is the aviation supply chain manager for the Defense Logistics Agency. Directorates moving into the Phase 2 Operations Center are part of the overall DLA Richmond mission to support the nation's war fighters by providing quality aviation related items when and where they need them. DLA Aviation serves as the primary source of supply for nearly 1.2 million repair parts and operating supply items world-wide.										
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 2020 MILITARY CONSTRUCTION PROJECT DATA			2. Date MARCH 2019	
3. Installation and Location DEFENSE DISTRIBUTION DEPOT RICHMOND, VA			4. Project Title OPERATIONS CENTER PHASE 2			
5. Program Element 0702976S		6. Category Code 61050		7. Project Number DSCR1901		8. Project Cost (\$000) 98,800
9. COST ESTIMATES						
Item		U/M	Quantity	Unit Cost	Cost (\$000)	
PRIMARY FACILITIES.....		-	-	-	68,080	
OPERATIONS BUILDING (CC 61050)		SF	281,075	239.32	(67,266)	
INFORMATION SYSTEMS		LS	-	-	(814)	
SUPPORTING FACILITIES.....		-	-	-	20,933	
SPECIAL COSTS		LS	-	-	(5,535)	
DEMOLITION		LS	-	-	(5,442)	
SITE CIVIL & MECHANICAL		LS	-	-	(4,642)	
SITE PREPARATION & IMPROVEMENTS		LS	-	-	(3,935)	
ELECTRICAL AND COMMUNICATIONS		LS	-	-	(1,379)	
SUBTOTAL.....		-	-	-	89,013	
CONTINGENCY (5%).....		-	-	-	<u>4,451</u>	
ESTIMATED CONTRACT COST.....		-	-	-	93,464	
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..		-	-	-	<u>5,327</u>	
TOTAL		-	-	-	98,791	
TOTAL (ROUNDED)		-	-	-	98,800	
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..		-	-	-	(13,927)	
10. Description of Proposed Construction:						
<p>Construct a multi-story office building to accommodate 1,622 employees in an administrative operations center. The Operations Center includes: open and individual administrative office and support areas (mail distribution, packing, shipping, reception space, reproduction area, unclassified conference and Video Tele-Conference (VTC) space, law library, kitchenette/break, restrooms, storage, equipment and supply rooms); passenger and service elevators, lightning protection, fire suppression, fire alarm, mass notification systems, Intrusion Detection System (IDS) and energy management control system (EMCS), and building information systems.</p> <p>Special costs include Sustainable Design and Development (SDD) and Energy Policy Act of 2005 (EPAct05) features (LEED Silver), cybersecurity measures (fire life safety, electronic security systems (IDS & CCTV) and utility monitoring systems), building antiterrorism and force protection (ATFP) measures and special foundations.</p> <p>Supporting facilities include demolition of building 33 (288,819 Total SF), site civil & mechanical work includes all required utility systems and connections, water, sewer, and gas, steam and chilled water distribution, geothermal system, storm drainage and low impact development features.</p> <p>Site preparation and improvements include clearing & grading, general demolition, paving, walks, curbs and gutters; parking and site circulation, access roads, signage, fencing and gates, exterior ceremonial presentation area, covered walkways and integrated smokers'</p>						

1. Component DEFENSE (DLA)	FY 2020 MILITARY CONSTRUCTION PROJECT DATA		2. Date MARCH 2019
3. Installation and Location DEFENSE DISTRIBUTION DEPOT RICHMOND, VA		4. Project Title OPERATIONS CENTER PHASE 2	
5. Program Element 0702976S	6. Category Code 61050	7. Project Number DSCR1901	8. Project Cost (\$000) 98,800
<p>structures, site furniture, exterior ATFP measures, and landscaping.</p> <p>Electrical and communications include site lighting, exterior power and communications ductbanks, cabling & connections, emergency generator, and pad mounted transformer.</p> <p>Comprehensive building and furnishings related interior design services are provided. Access for individuals with disabilities will be provided.</p> <p>Anti-terrorism Force Protection (ATFP), cyber-security and sustainable design principles will be incorporated into the design and construction. Cost effective energy conserving features will be incorporated into the design including energy management control systems, high efficiency Heating Ventilation & Air Conditioning (HVAC) systems, and LED lighting. This project is outside of the 100-year floodplain. This project was included in the prior year's future-years defense program.</p>			
<p>11. REQUIREMENT: 534,087 SQUARE FOOT (SF) ADEQUATE: 252,982 SF SUBSTANDARD: 529,582 SF</p>			
<p>PROJECT: Replace existing administrative facilities with new operations center for a major subordinate command. (C)</p>			
<p>REQUIREMENT: The second phase of this project is required to provide Defense Logistics Agency - Aviation (DLA Aviation) adequate administrative and operational space. Phase 2 will support 1,622 people and represents the total administrative requirement, as agreed upon by the Directorates. This project replaces existing converted World War II warehouse facilities currently being used for administrative space and consolidates an organization now located in dispersed buildings on the installation.</p>			
<p>CURRENT SITUATION: One third of DLA Aviation is adequately supported by the recently completed Phase I Operations Center. The remaining two thirds occupies a mix of temporary mobile trailers and existing administrative and storage facilities of which most are warehouses built in 1942. Converted to administrative space, the buildings are highly energy inefficient and do not meet current Anti-terrorism Force Protection, security, access control, or handicap accessibility requirements. Most individual work spaces are standard cubicle furniture configured in quads, but some work spaces remain poorly configured and working out of multiple buildings which hurts operational efficiency. Communication infrastructure is in good condition. Supporting utility and HVAC systems are old and failing. DLA Aviation shares Lott Conference Center with other tenants to meet auditorium/training facility requirements.</p>			
<p>IMPACT IF NOT PROVIDED: DLA Aviation will continue to maintain existing failing facilities and purchase additional temporary trailers or lease space as needed. Use of failing facilities reduces productivity, hurts DLA Aviation's ability to hire and retain quality work force, and has high operation and maintenance cost. DLA Aviation will be compelled to operate inefficiently with key staff elements scattered in dispersed, inadequate, or temporary facilities, which are scheduled for disposal. In addition, if this project is not built, costly repairs will be incurred to bring the existing buildings into compliance with current standards for buildings.</p>			
<p>ADDITIONAL: This project has been coordinated with the installation physical security plan, and all physical security measures are included. All required antiterrorism protection</p>			

1. Component DEFENSE (DLA)	FY 2020 MILITARY CONSTRUCTION PROJECT DATA			2. Date MARCH 2019
3. Installation and Location DEFENSE DISTRIBUTION DEPOT RICHMOND, VA		4. Project Title OPERATIONS CENTER PHASE 2		
5. Program Element 0702976S	6. Category Code 61050	7. Project Number DSCR1901	8. Project Cost (\$000) 98,800	
<p>measures are included. The Deputy Assistant Secretary of the Army (Installations, Housing and Partnerships) certifies that this project has been considered for joint use potential. Sustainable principles, to include Life Cycle cost-effective practices, are integrated into the design, development, and construction of the project.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Army requirements.</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/2017
(b) Percent of Design Completed as of Jan 2019:				35%
(c) Design or RFP Complete:				JAN/2020
(d) Total Design Cost (\$000):				8,440
(e) Energy Study and/or Life Cycle Analysis performed:				Yes
(f) Standard or definitive design used?				No
3. Construction Data:				
(a) Contract Award:				JUN/2020
(b) Construction Start:				JUL/2020
(c) Construction Complete:				DEC/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>	
FURNITURE/PREWIRED WORKSTATIONS	DWCF	FY23	8,800	
UPS	DWCF	FY22	1,257	
CCTV	DWCF	FY23	167	
INTRUSION DETECTION SYSTEM	DWCF	FY22	99	
AUDIOVISUAL EQUIPMENT	DLA J-6	FY23	258	
TELECOMMUNICATIONS	DLA J-6	FY22	200	
STANDBY GENERATORS	DWCF	FY22	3,146	
Point of Contact is DLA Civil Engineer at 571-767-0631				

PROJECT SPENDING PLAN

PROJECT: Phase II, Defense Logistics Agency, Richmond, VA (DSCR 1901) As of:

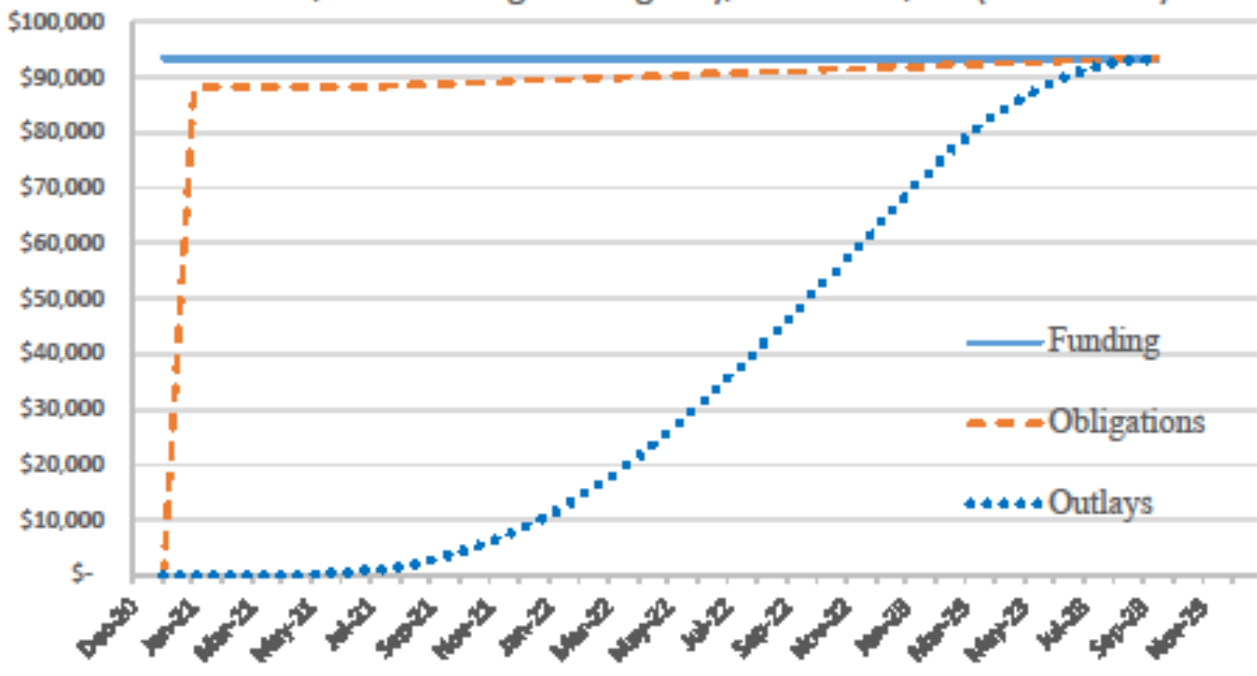
Feb-19

All costs in thousands (\$XX)

Month-Year	FUNDING (note 1)		OBLIGATIONS (note 2)		OUTLAYS (note 3)	
	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
Dec-20	\$ 93,464	\$ 93,464	\$ -	\$ -	\$ -	\$ -
Jan-21	\$.	\$ 93,464	\$ -	\$ -	\$ -	\$ -
Feb-21	\$.	\$ 93,464	\$ 88,264	\$ 88,264	\$ -	\$ -
Mar-21	\$.	\$ 93,464		\$ 88,264	\$ -	\$ -
Apr-21	\$.	\$ 93,464		\$ 88,264	\$ -	\$ -
May-21	\$.	\$ 93,464		\$ 88,264	\$ -	\$ -
Jun-21	\$.	\$ 93,464		\$ 88,264	\$ 185	\$ 185
Jul-21	\$.	\$ 93,464		\$ 88,264	\$ 297	\$ 482
Aug-21	\$.	\$ 93,464		\$ 88,264	\$ 510	\$ 992
Sep-21	\$.	\$ 93,464	\$ 400	\$ 88,664	\$ 722	\$ 1,714
Oct-21	\$.	\$ 93,464		\$ 88,664	\$ 1,134	\$ 2,848
Nov-21	\$.	\$ 93,464	\$ 400	\$ 89,064	\$ 1,546	\$ 4,394
Dec-21	\$.	\$ 93,464		\$ 89,064	\$ 1,959	\$ 6,353
Jan-22	\$.	\$ 93,464	\$ 400	\$ 89,464	\$ 2,371	\$ 8,724
Feb-22	\$.	\$ 93,464		\$ 89,464	\$ 2,783	\$ 11,508
Mar-22	\$.	\$ 93,464	\$ 400	\$ 89,864	\$ 3,196	\$ 14,703
Apr-22	\$.	\$ 93,464		\$ 89,864	\$ 3,608	\$ 18,311
May-22	\$.	\$ 93,464	\$ 400	\$ 90,264	\$ 4,020	\$ 22,332
Jun-22	\$.	\$ 93,464		\$ 90,264	\$ 4,433	\$ 26,765
Jul-22	\$.	\$ 93,464	\$ 400	\$ 90,664	\$ 4,845	\$ 31,610
Aug-22	\$.	\$ 93,464		\$ 90,664	\$ 5,257	\$ 36,867
Sep-22	\$.	\$ 93,464	\$ 400	\$ 91,064	\$ 5,370	\$ 42,237
Oct-22	\$.	\$ 93,464		\$ 91,064	\$ 5,482	\$ 47,719
Nov-22	\$.	\$ 93,464	\$ 400	\$ 91,464	\$ 5,594	\$ 53,313
Dec-22	\$.	\$ 93,464		\$ 91,464	\$ 5,707	\$ 59,020
Jan-23	\$.	\$ 93,464	\$ 400	\$ 91,864	\$ 5,819	\$ 64,839
Feb-23	\$.	\$ 93,464		\$ 91,864	\$ 5,931	\$ 70,770
Mar-23	\$.	\$ 93,464	\$ 400	\$ 92,264	\$ 5,244	\$ 76,014
Apr-23	\$.	\$ 93,464		\$ 92,264	\$ 4,556	\$ 80,570
May-23	\$.	\$ 93,464	\$ 400	\$ 92,664	\$ 3,868	\$ 84,438
Jun-23	\$.	\$ 93,464		\$ 92,664	\$ 3,181	\$ 87,618
Jul-23	\$.	\$ 93,464	\$ 400	\$ 93,064	\$ 2,493	\$ 90,111
Aug-23	\$.	\$ 93,464		\$ 93,064	\$ 1,805	\$ 91,917
Sep-23	\$.	\$ 93,464	\$ 400	\$ 93,464	\$ 1,118	\$ 93,034
Oct-23	\$.	\$ 93,464		\$ 93,464	\$ 430	\$ 93,464

Note 1 : Assumes appropriation is enacted no later than mid-December of the program year. Note 2: Assumes funds are available to the contracting officer for obligation no earlier than February of the program year to accommodate the funding process (e.g. receipt of apportionments/allotments and acquisition timelines.
 Note 3: Provide relevant assumptions for project outlays and what it includes.

Phase II, Defense Logistics Agency, Richmond, VA (DSCR 1901)



1. COMPONENT DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYY MMDD) March 2019			
3. INSTALLATION AND LOCATION GENERAL MITCHELL IAP, WISCONSIN			4. COMMAND DEFENSE LOGISTICS AGENCY			5. AREA CONSTRUCTION COST INDEX 1.08			
6. PERSONNEL	(1) PERMANENT		(2) STUDENTS			(3) SUPPORTED		(4) TOTAL	
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER		ENLISTED
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								25,900.00	
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								25,900.00	
8. PROJECTS REQUESTED IN THIS PROGRAM									
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS			
(1) CODE	(2) PROJECT TITLE		(3) SCOPE			(1) START	(2) COMPLETE		
121	POL FACILITIES REPLACEMENT		3,850 SF		25,900	NOV 2017	SEP 2019		
9. FUTURE PROJECTS									
10. MISSION OR MAJOR FUNCTIONS									
<p>General Mitchel Air National Guard hosts the 128th Air Refueling Wing (ARW). The 128th ARW primary mission is air refueling. It supports the Air Force mission of Global Reach and Global Power which enables the United States to effectively conduct strike operations anywhere in the world. When activated to federal service in the United States Air Force the wing is operationally gained by the Air Mobility Command. It provides aerial refueling to all branches of the United States military and to government and allied aircraft.</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 2020 MILITARY CONSTRUCTION PROJECT DATA	2. Date MARCH 2019		
3. Installation and Location GENERAL MITCHELL IAP, WISCONSIN		4. Project Title POL FACILITIES REPLACEMENT		
5. Program Element 0702976S	6. Category Code 121124	7. Project Number DESC2001	8. Project Cost (\$000) 25,900	
9. COST ESTIMATES				
Item	U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITIES	-	-	-	14,623
PUMP HOUSE AND CONTROL ROOM (CC 121124)	SF	3,850	1,600.8	(6,163)
OPERATING STORAGE, JET FUEL (CC 124135)	GA	420,000	9.23	(3,875)
POL OPS BUILDING AND LAB (CC 121111)	SF	3,250	473.5	(1,539)
LIQUID FUEL TRUCK FILL STAND (CC 126925)	OL	2	619,500	(1,239)
LIQUID FUEL STAND, UNLOADING (CC 126926)	OL	2	556,500	(1,113)
OPERATING STORAGE, MOTOR GAS (CC 124137)	GA	5,000	69.4	(347)
OPERATING STORAGE, DIESEL (CC 124134)	GA	5,000	69.4	(347)
SUPPORTING FACILITIES	-	-	-	8,667
SITE IMPROVEMENTS	LS	-	-	(4,314)
CIVIL SITE WORK	LS	-	-	(2,313)
SITE ELECTRICAL	LS	-	-	(866)
MECHANICAL WORK	LS	-	-	(796)
DEMOLITION AND SITE PREPARATION	LS	-	-	(378)
SUBTOTAL	-	-	-	23,290
CONTINGENCY (5%)	-	-	-	<u>1,165</u>
ESTIMATED CONTRACT COST	-	-	-	24,455
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	<u>1,394</u>
TOTAL	-	-	-	25,848
TOTAL (ROUNDED)	-	-	-	25,900
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..				(333)
10. Description of Proposed Construction:				
<p>Construct a new consolidated fueling facility that includes aboveground fuel storage tanks, pump house with a control room, product recovery tank, POL operations building with a laboratory, refueling vehicle parking, truck loading and unloading points, motor gas storage tank, diesel storage tank, and supporting facilities. The new fuel facility will supply the existing aircraft direct fuel system at the airfield. Anti-terrorism (AT/FP), cyber-security, and sustainable design principles are incorporated into the design and construction.</p> <p>The new standard Type III pump house 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. The pump house will contain a control room, pump room, mechanical room, storage room, as well as emergency shut-off switches, emergency shower and eyewash, HVAC, fire sprinklers, alarms, bridge crane, pump controls, grounding and lightning protection, 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>				

1. Component DEFENSE (DLA)	FY 2020 MILITARY CONSTRUCTION PROJECT DATA		2. Date MARCH 2019
3. Installation and Location GENERAL MITCHELL IAP, WISCONSIN		4. Project Title POL FACILITIES REPLACEMENT	
5. Program Element 0702976S	6. Category Code 121124	7. Project Number DESC2001	8. Project Cost (\$000) 25,900
<p>The new fuel storage tanks are 5,000 barrel (420,000 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.</p>			
<p>The POL operations building includes a Type C++ fuels lab, meeting area, training area, offices, locker room, and restrooms. Also included are mechanical and electrical rooms as well as a janitor closet and all necessary HVAC, piping, fire protection, mechanical, electrical, communications and data infrastructure, and other related work.</p>			
<p>New fill stands and truck unloading points will be constructed. This work also includes refueler truck load and unload containment areas, hydrant hose truck checkout stand, well as all mechanical equipment, pumps, grounding, spill containment, piping, and supports.</p>			
<p>The new 5,000 gallon motor gas storage tank and 5,000 gallon diesel storage tank are above ground double-wall tanks and include all associated piping, pumps, equipment, dispensers, unload system, supports, spill containment, and automated tank gauging.</p>			
<p>Site improvements include asphalt and concrete pavement for access drives, roads and parking areas, sidewalks, landscaping, as well as new refueler truck parking. Additionally, the south access road will be paved following the same route as the existing gravel road. Fencing will be installed around the consolidated fuel facility for security, including associated gates. Canopies will be provided for unload and fill stand equipment, refueler parking spaces, and the motor and diesel tank loading and unloading area.</p>			
<p>Civil site work includes excavation and earthwork as well as water, gas, and sanitary utility requirements. Stormwater management will also be provided, including containment basins, drainage, and oil water separators.</p>			
<p>Site electrical work includes cathodic protection, building lighting, transformers, lightning protection, grounding, communications, emergency fuel shut off systems, and control stations. An emergency generator will be provided. Site area lighting is included.</p>			
<p>Mechanical work includes installing 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 any other necessary appurtenances.</p>			
<p>Demolition and site preparation includes removing existing pavement and site clearing and grading.</p>			
<p>11. REQUIREMENT: 3,850 SQUARE FOOT (SF) ADEQUATE: 0 SF SUBSTANDARD: 0 SF</p>			
<p>PROJECT: Replace and consolidate an obsolete fuel system with a modern system, including new fill stands, unload points, pump house, operations building, motor gas and diesel storage tanks.</p>			
<p>REQUIREMENT: This project is required to provide the 128th Air Refueling Wing (ARW) with an adequately sized, functionally configured, environmentally compliant, and reliable system to refuel its fleet of 10 KC-135 aerial refueling aircraft and supporting vehicles.</p>			
<p>CURRENT SITUATION: The POL facility at the 128th ARW is one of the oldest operational systems</p>			

1. Component DEFENSE (DLA)	FY 2020 MILITARY CONSTRUCTION PROJECT DATA		2. Date MARCH 2019
3. Installation and Location GENERAL MITCHELL IAP, WISCONSIN		4. Project Title POL FACILITIES REPLACEMENT	
5. Program Element 0702976S	6. Category Code 121124	7. Project Number DESC2001	8. Project Cost (\$000) 25,900

within the Air National Guard and the United States Air Force. It was built in the 1960s and has been modified multiple times. It was reconfigured in the 1980's to include a hydrant fuel system on the aircraft ramp. The current system can pump fuel at an adequate rate to fill aircraft but cannot achieve flushing velocities required to clean the hydrant loop.

Due to the age of the POL facility most mechanical and electrical equipment is well beyond its service life and many repair parts are no longer available. Extended outages are expected while parts are custom made or various systems are modified to utilize new parts. The deteriorated condition of the fuel equipment is expected to worsen and increase the risk of mission failure. Due to modifications over the past 50 years, the electrical distribution system is littered with National Electrical Code (NEC) violations, creating an extremely dangerous work environment for all personnel that have to perform any task in the electrical building 604. Additionally, the POL Operations area in building 606 is severely undersized, where only 971 square feet are used for all POL Operations and Laboratory testing. The facility was not designed to accommodate the current POL staff of 13 men and women simultaneously.

The installation has unresolved environmental concerns. The installation currently has open Notice of Violations (NOVs) from both the State of Wisconsin and U.S. EPA, due to multiple issues with the current POL facility. These NOV's cite multiple capability failures within the POL facility. The concrete secondary containment around the above ground bulk storage tanks was cited by both the State of Wisconsin and EPA because it was settling and heaving, leaving large gaps and cracks. DLA Energy executed repair projects to install containment liners, however these liners did not completely address the citations and they do not meet the State of Wisconsin's liner requirements. Another citation is for the lack of secondary containment around the commercial truck unloading stands, the refueler truck loading stands, and the refueler truck parking area. The refueler truck parking area also lacks the required spacing between trucks and to surrounding buildings. Because of this, the refueler trucks are generally parked empty unless absolutely needed to accomplish the mission.

IMPACT IF NOT PROVIDED: The inability of the hydrant system to reach flushing velocities increases the risk of contaminants entering the refueler aircraft tanks as well as other aircraft as the KC-135's conduct in-flight refueling operations.

The existing POL facility is in poor condition due to its age. Failure of this facility will jeopardize the ability to support Strategic USSTRATCOM, USNORTHCOM, and USTRANSCOM missions currently performed by the 128th ARW from home station. Given that the Wing has open NOVs from 2010 for problems that have been known for over 15 years, there exists a non-trivial possibility that the EPA will impose fines or order the 128th ARW to stop operating the POL facility. These potential actions could be further accelerated in the event of a major spill or a catastrophic release. As system components continue to age, the probability of failure will increase exponentially. This coupled with replacement parts being unavailable creates a high potential that the system would have to be reconfigured to accept new equipment.

When a part of the hydrant system fails, reliance on R-11 refueling trucks increases, and because the trucks will need to be refilled before going to other aircraft, operations will be hampered by delays in refueling. These delays will affect sortie turnaround times and may result in unacceptable response times and jeopardize the base's ability to perform its assigned missions.

1. Component DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROJECT DATA		2. Date MARCH 2019	
3. Installation and Location GENERAL MITCHELL IAP, WISCONSIN			4. Project Title POL FACILITIES REPLACEMENT		
5. Program Element 0702976S		6. Category Code 121124	7. Project Number DESC2001	8. Project Cost (\$000) 25,900	
ADDITIONAL: This project meets all applicable DoD criteria including cyber-security 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. This project was included in the prior year's future-years defense program.					
12. Supplemental Data:					
A. Estimated Design Data:					
7. Acquisition Strategy:				Design Bid Build	
8. Design Data					
(a) Design or Request for Proposal (RFP) Started:				NOV/2017	
(b) Percent of Design Completed as of Jan 2019:				35%	
(c) Design or RFP Complete:				SEP/2019	
(d) Total Design Cost (\$000):				947	
(e) Energy Study and/or Life Cycle Analysis performed:				No	
(f) Standard or definitive design used?				Yes	
9. Construction Data:					
(a) Contract Award:				FEB/2020	
(b) Construction Start:				MAR/2020	
(c) Construction Complete:				MAR/2022	
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	2020	333	
Point of Contact is DLA Civil Engineer at 571-767-0631					

1. COMPONENT DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYY MMDD) March 2019				
3. INSTALLATION AND LOCATION JOINT REGION MARIANAS, GUAM			4. COMMAND DEFENSE LOGISTICS AGENCY			5. AREA CONSTRUCTION COST INDEX 2.57				
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									19,200.00	
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									19,200.00	
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			
125	XRAY WHARF REFUEL FACILITIES		2,800 M		19,200	NOV 2017	SEP 2019			
9. FUTURE PROJECTS										
10. MISSION OR MAJOR FUNCTIONS										
<p>Naval Base Guam provides supply and support services to Joint Operational Units, Fleet units and shore activities and includes the operation of the POL storage and fuel distribution system. The mission of Naval Base Guam is to provide fuel support Joint Combat Logistics Forces and the strategic enroute air/sealift bridge in and passing through the operating area. The X-Ray Wharf refueling facility facilitates refueling operations of the cargo and military ships and significantly improve the U.S. Navy and Military Sealift Command (MSC) sustainability in Guam.</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 2020 MILITARY CONSTRUCTION PROJECT DATA			2. Date MARCH 2019			
3. Installation and Location JOINT REGION MARIANAS, GUAM			4. Project Title XRAY WHARF REFUEL FACILITIES					
5. Program Element 0701111S		6. Category Code 12510		7. Project Number DESC1908		8. Project Cost (\$000) 19,200		
9. COST ESTIMATES								
Item					U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITIES.....					-	-	-	6,679
POL PIPELINE (9,186 LF)(CC 12510)					M	2,800	2,385.32	(6,679)
SUPPORTING FACILITIES.....					-	-	-	10,467
MECHANICAL UTILITIES					LS	-	-	(3,555)
MUNITIONS INVESTIGATION					LS	-	-	(3,448)
SPECIAL COSTS					LS	-	-	(2,579)
ELECTRICAL UTILITIES					LS	-	-	(627)
SITE IMPROVEMENTS					LS	-	-	(258)
SUBTOTAL.....					-	-	-	17,146
CONTINGENCY (5%).....					-	-	-	857
ESTIMATED CONTRACT COST.....					-	-	-	18,004
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (6.5%)..					-	-	-	1,116
TOTAL					-	-	-	19,120
TOTAL (ROUNDED)					-	-	-	19,200
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..					-	-	-	0
10. Description of Proposed Construction:								
<p>Install a fuel supply pipeline for Marine Diesel Fuel from an existing transfer pipeline to X-Ray Wharf located at the Naval Base. The new transfer pipe routing will include several road crossings and an elevated river crossing. New work will include replacement of existing valve pits with new valve vaults, and associated piping, fittings, accessories, and grating necessary to allow performance of routine operations without confined space permits. Provide new piping, risers and valve vaults to facilitate connection to docked vessels at Berths. Piping includes all vaults, valves, fittings and connections, end-of-line vault for pipe cleaning equipment (pig launch). All piping and equipment within each valve vault will be welded carbon steel, externally protected by coating system.</p> <p>Mechanical utilities include valve vault sump pumps, piping at sump locations, test fittings to accommodate leak detection testing system, buffer tanks for storm water treatment, oil-water separator, and related work. Electrical work includes controls and grounding at riser locations and for piping leak detection system, cathodic protection and related items. Site improvements include pavement demolition, utility relocations, concrete pads, grading, seeding and fencing and related work.</p> <p>Munitions investigation include explosive clearance requirements. Special costs include Post Construction Award Services (PCAS), gross receipts tax, geospatial survey and mapping, cybersecurity commissioning, and an allowance for coordination with the Government of Guam for rehabilitation of Marine Corps Drive, Operations and Maintenance Support Information</p>								

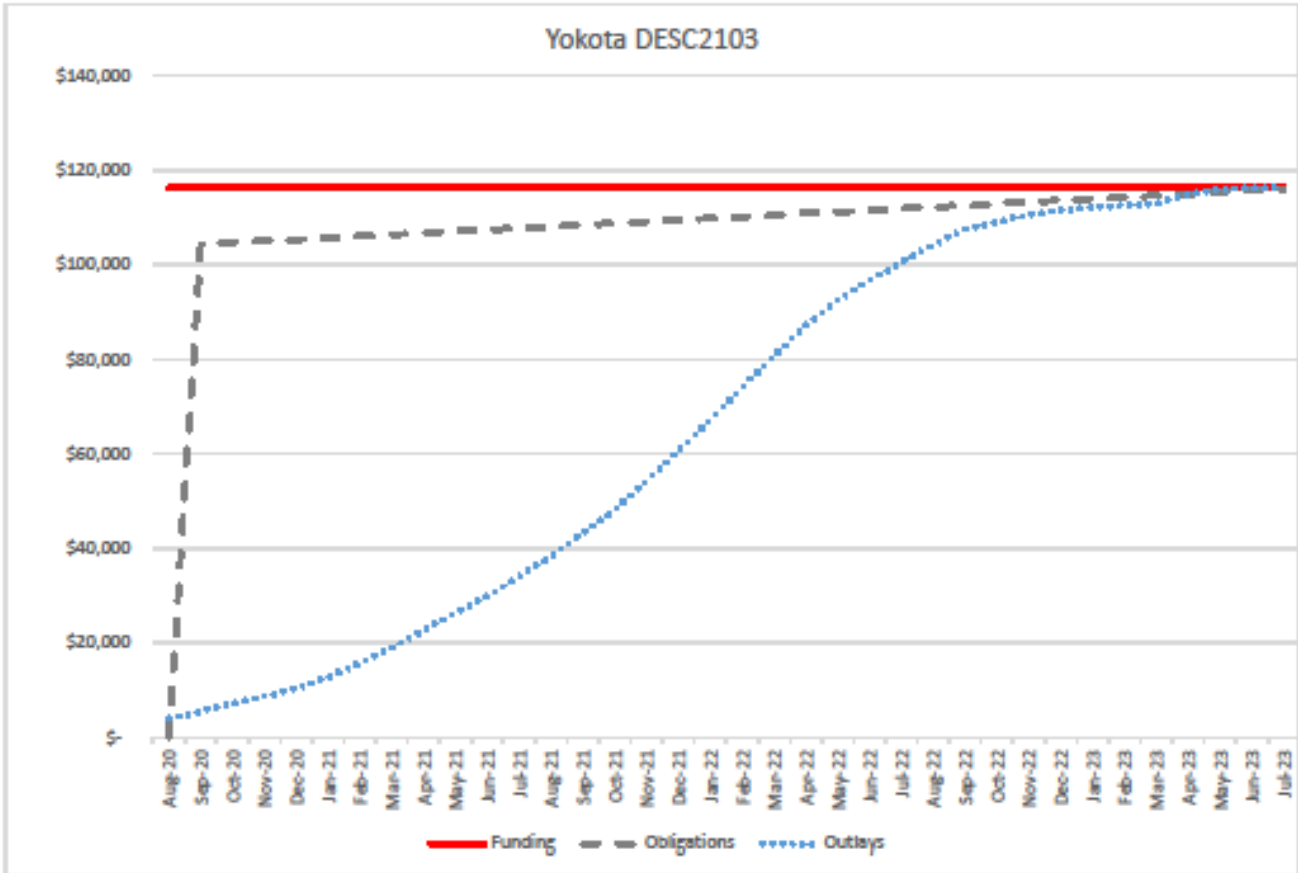
1. Component DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROJECT DATA		2. Date MARCH 2019	
3. Installation and Location JOINT REGION MARIANAS, GUAM			4. Project Title XRAY WHARF REFUEL FACILITIES		
5. Program Element 0701111S		6. Category Code 12510	7. Project Number DESC1908	8. Project Cost (\$000) 19,200	
(OMSI), and archeological monitoring.					
11. REQUIREMENT: 2,800 METERS (M)		ADEQUATE: 0 M		SUBSTANDARD: 0 M	
PROJECT: Construct a refueling facility to support refueling activities (C)					
REQUIREMENT: This project will provide essential increased operational capability, flexibility, and benefits to Naval Base Guam and the Pacific Fleet. Redundancy in refueling capabilities is necessary for logistical ship support. This project provides an alternative fuel supply source to the fuel facility.					
CURRENT SITUATION: Naval Base Guam is a source supply for Naval and MSC vessels in the operating area. The present refueling facilities are insufficient to provide adequate fueling services for maritime pre-positioned ships and naval vessels. Inefficient fueling activities at existing wharves often result in a backup of cargo ships and double docking as cargo ships await their turn to refuel. In addition, barges augment operations by delivering fuel from the existing piers to vessels in the harbor. The Base lacks a contingency wharf for fueling operations in the event of wharf closure due to damage or repairs. The existing Delta pier recently sustained damage during a ship collision in December 2018.					
IMPACT IF NOT PROVIDED: Mission performance will continue to be seriously impaired and a petroleum logistics shortfall will continue to exist. Barging operations will continue and transfer of fuel from piers to barge to ship will increasingly risk fuel/oil spills that may cause serious environmental damage to the harbor and the marine habitat. Environmental cleanup of spills will adversely affect ships transiting into and out of the harbor. Mission performance will be in jeopardy in the event of wharf closure and without the added fueling capability the XRay wharf will provide.					
ADDITIONAL: This project meets all applicable DoD criteria. The Regional Commander certifies this facility was considered for joint use. Joint use is recommended. This project was included in the prior year's future-years defense program.					
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 2019:				35%	
(c) Design or RFP Complete:				SEP/2019	
(d) Total Design Cost (\$000):				805	
(e) Energy Study and/or Life Cycle Analysis performed:				Yes	
(f) Standard or definitive design used?				No	
3. Construction Data:					
(a) Contract Award:				MAR/2020	
(b) Construction Start:				MAY/2020	
(c) Construction Complete:				APR/2021	
B. Equipment associated with this project that will be provided from other appropriations: NONE					
Point of Contact is DLA Civil Engineer at 571-767-0631					

1. COMPONENT DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYY MMDD) March 2019				
3. INSTALLATION AND LOCATION YOKOTA AIR BASE, JAPAN			4. COMMAND DEFENSE LOGISTICS AGENCY			5. AREA CONSTRUCTION COST INDEX 1.98				
6. PERSONNEL		(1) PERMANENT		(2) STUDENTS			(3) SUPPORTED		(4) TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER		ENLISTED
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									116,305.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM									0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS									80,000.00	
g. REMAINING DEFICIENCY									0.00	
h. GRAND TOTAL									196,305.00	
8. PROJECTS REQUESTED IN THIS PROGRAM										
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS				
(1) CODE	(2) PROJECT TITLE		(3) SCOPE			(1) START	(2) COMPLETE			
411	BULK STORAGE TANKS, PH 1		200,000 BL		116,305	DEC 2017	JUL 2019			
9. FUTURE PROJECTS										
411	BULK STORAGE TANKS, PH 2		200,000 BL		80,000	DEC 2019	OCT 2021			
10. MISSION OR MAJOR FUNCTIONS										
<p>Yokota Air Base, Japan is located approximately 20 miles west of Tokyo, Japan. The host unit is the 374th Airlift Wing which is assigned to the Fifth Air Force (5 AF) of the United States Air Force Pacific Air Forces (PACAF). The 374th Operations Group contains the 36th Airlift Squadron (36 AS) and 459th Airlift Squadron (459 AS). Aircraft included in each of these squadrons are the C-130 Hercules, UH-1N Iroquois, and C-12J Hurons. Due to its strategic location and long runway, the Air Base routinely services KC-135 Stratotankers, C-5 Galaxies, KC-10 Extenders, and various other aircraft. The 459th and 36th Airlift Squadrons perform multifaceted missions that include passenger transport, aeromedical evacuation, search and rescue, humanitarian relief, and service and support via airlift and airdrop operations.</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 2020 MILITARY CONSTRUCTION PROJECT DATA			2. Date MARCH 2019
3. Installation and Location YOKOTA AIR BASE, JAPAN		4. Project Title BULK STORAGE TANKS PHASE 1		
5. Program Element 0701111S	6. Category Code 411320	7. Project Number DESC2103	8. Project Cost (\$000) 116,305	
9. COST ESTIMATES				
Item	U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITIES				
BULK STORAGE TANK (CC 411320))	BL	100,000	501.6	89,418 (50,160)
FILTER/SEPARATOR BUILDING (CC 121124)	SM	418	68,763	(28,743)
TRUCK FILL STAND (CC126925)	OL	2	2,571,186	(5,142)
ADDITIVE INJECTION SYSTEM (124139)	GA	30,550	175.86	(5,373)
SUPPORTING FACILITIES.....				
SITE ELECTRICAL UTILITIES	LS	-	-	14,588 (9,593)
CIVIL AND MECHANICAL UTILITIES	LS	-	-	(3,205)
SITE PREPARATION AND IMPROVEMENTS	LS	-	-	(1,109)
SPECIAL COSTS	LS	-	-	(681)
SUBTOTAL.....				
CONTINGENCY (5%).....	-	-	-	104,006 <u>5,200</u>
ESTIMATED CONTRACT COST.....				
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (6.5%)..	-	-	-	109,206 <u>7,098</u>
TOTAL				
TOTAL (ROUNDED)	-	-	-	116,305 116,305
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..				
CURRENCY EXCHANGE RATE: ¥ 111.5938/dollar	-	-	-	(225)
10. Description of Proposed Construction:				
<p>EASTSIDE FUEL FACILITY: Construct a 100,000 barrel cut-and-cover JP-8 fuel storage tank, filter building, two-bay truck fill-stand. The new bulk tank contains a pump house with 600-gpm issue vertical turbine pumps and a 50-gpm water draw off vertical turbine pump. The tank includes a high-level valve, independent level alarms, and hardware necessary for the installation of automatic tank gauging (ATG) systems. The tank includes piping, valves, vaults and appurtenances from tanks to filter separator building.</p>				
<p>The Filter Building control room will contain new pump control Programmable Logic Controller (PLC) and Human Machine Interface (HMI), automatic tank gauge (ATG) reporting module capable of reporting inputs from all Eastside Fuel Facility tanks. Provide a product saver tank for each bulk tank. The filter building contains 600-gpm issue filter separators, 2400-gpm micronic filters, and 1200-gpm receipt filter separators and backups as needed. Crossover piping between the new and existing filter buildings will provide issue capability from any tank to any truck fill stand location. The new filter building and pump house include fire alarms and transmitters compatible with base's systems, control panel and automatic detection system, and manual pull stations. The filter building includes a plumbing system, control</p>				

1. Component DEFENSE (DLA)	FY 2020 MILITARY CONSTRUCTION PROJECT DATA			2. Date MARCH 2019
3. Installation and Location YOKOTA AIR BASE, JAPAN		4. Project Title BULK STORAGE TANKS PHASE 1		
5. Program Element 0701111S	6. Category Code 411320	7. Project Number DESC2103	8. Project Cost (\$000) 116,305	
room HVAC, filter room mechanical ventilation, and emergency eyewash/shower.				
<p>Expand the existing truck fill stand to add two vehicle bays with metal roof canopy and structural steel framing on a concrete pad. Each fill stand will be capable of loading a R-11 refueler at a rate of 600-gpm. Provide a double wall, underground product recovery tank near the filter building with a recovery pump to return reclaimed fuel back through receipt filtration to bulk storage. The tank will have an ATG system, level alarms, overflow prevention, interstitial monitoring, and a local horn with acknowledgement and visible alarm at a manned location in the filter building and all necessary electrical work including lighting, power, and controls.</p>				
<p>ADDITIVE INJECTION SYSTEM FACILITY: Modify Building 4091 at the rail receipt yard to install a new fuel additive injection systems and associated infrastructure within the pump room. Construct a canopy and concrete slab to house the Static Dissipater Additive (SDA) and Corrosion Inhibitor/Lubricity Improver (CI/LI) operational mix tanks, additive storage and a rolled curb delivery vehicle area for truck off-load and spill containment. The additive injector system will mechanically inject Fuel System Icing Inhibitor (FSII), SDA and CI/LI to convert Jet A-1 to military spec JP-8. Provide appropriately sized and separate tanks for SDA and CI/LI, to mix (dilute) each with jet fuel prior to injection. FSII is injected without any dilution. Install the injectors and a bypass line in Building 4091 connecting to the existing offload pump discharge to allow the fuel to be additized from the rail receipt or truck offload. Provide stainless steel piping from the additive tanks to the injectors to accommodate the direct receipt of JP-8 from the truck or rail offload. Electrical work for the additive injection system facility includes power, lighting, controls, and Supervisory Control and Data Acquisition (SCADA).</p>				
<p>SUPPORTING FACILITIES: Electrical utility improvements include transformers, switchgear, relocation of primary electrical and outside plant telecommunications, secondary power distribution, motor control centers, SCADA, telecommunications, area lighting, grounding, lightning protection, standby generator, controls, duct banks and related work.</p>				
<p>Site preparation and improvements include demolition and removal of abandoned fuel pipelines and vaults within the tank footprint, site clearing and grubbing, earthwork, access roads, paving, fencing and gates, utility relocations, and landscaping and restoration of existing soil berms. Construction of the cut-and-cover tanks requires significant excavation. Civil and Mechanical utilities include new water and fire hydrants, water lateral connection and a septic system for the filter building, a new pipeline from Building 4091 to Valve Pit B-1 (VPB-1). Rebuild VPB-1 to accommodate additional valves and piping. Install connection points for inline inspection tools (pigs) at VPB-1, Building 4091 and Eastside Fuel Facility. Special Costs include cyber-security measures.</p>				
<p>11. REQUIREMENT: 850,000 BARRELS (BL) ADEQUATE: 450,000 BL SUBSTANDARD: 0 BL</p>				
<p>PROJECT: Construct cut-and-cover JP-8 bulk storage tanks, filter/separator building, additive injection system, truck fill stand and a train offload transmission main. This phase I project provides 25 percent of the total storage requirement of 4-100k barrel tanks. (C)</p>				
<p>REQUIREMENT: Additional fuel storage to extend Pacific region airlift operations, the capability to receive commercial Jet A-1 to comply with new DLA Energy fuel acquisition strategy, and direct fuel transfer capability between the Eastside Fuel and train offload</p>				

1. Component DEFENSE (DLA)		FY 2020 MILITARY CONSTRUCTION PROJECT DATA		2. Date MARCH 2019	
3. Installation and Location YOKOTA AIR BASE, JAPAN			4. Project Title BULK STORAGE TANKS PHASE 1		
5. Program Element 0701111S		6. Category Code 411320	7. Project Number DESC2103	8. Project Cost (\$000) 116,305	
<p>facilities.</p> <p>CURRENT SITUATION: Yokota Air Base does not have sufficient on-site fuel storage capacity to support extended operational needs required by United States Forces Japan (USFJ). The Yokota fuel supply is supported by off-site fuel storage at Defense Fuel Supply Point (DFSP) Tsurumi. Primary fuel receipt is by rail car and then pumped to the Main Base filter receipt building before transfer into storage. The truck offload positions at the Main Base POL serves as a secondary receipt mode. Fuel is stored at the Eastside Fueling Facility and at the Main Base. The Eastside Fueling Facility has two 100,000-bbl tanks and the Main Base POL Facility has two 100,000-bbl and one 50,000-bbl JP-8 bulk storage tanks. The standard operation is to receive JP-8 into three bulk storage tanks at the Main Base POL facility and then to the Eastside Fueling Facility storage tanks that supplies fuel to the hydrant system tanks. Fuel transfers between the three facilities keeps the fuel circulated and prevents inventory stagnation. Yokota Air Base does not have the ability to accept commercially available Jet A-1 fuel nor the ability to store or inject additives in fuel.</p> <p>IMPACT IF NOT PROVIDED: The Air Base will be less effective and unable to fully support airlift operations during contingency or humanitarian campaigns. The base will be non-compliant with DLA fuel acquisition strategy without the capability to receive and convert the more commonly available Jet A-1 to JP-8 military specifications.</p> <p>ADDITIONAL: Sustainable engineering principles will be integrated into the design, development, and construction of the project. This facility can be used by other components on an "as available" basis however the project scope is based on Air Force requirements. This project was included in the prior year's future-years defense program.</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:				DEC/2017	
(b) Percent of Design Completed as of Jan 2019:				35%	
(c) Design or RFP Complete:				JAN/2020	
(d) Total Design Cost (\$000):				8,000	
(e) Energy Study and/or Life Cycle Analysis performed:				Yes	
(f) Standard or definitive design used?				No	
3. Construction Data:					
(a) Contract Award:				SEP/2020	
(b) Construction Start:				DEC/2020	
(c) Construction Complete:				DEC/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>	
AUTOMATED TANK GAUGING		DWCF	FY22	225	
Point of Contact is DLA Civil Engineer at 571-767-0631					



PROJECT SPENDING PLAN

PROJECT: Yokota Air Base, Japan (DESC2103)

As of: Jan-19

All costs in thousands (\$XXX)

Month-Year	FUNDING (note 1)		OBLIGATIONS (note 2)		OUTLAYS (note 3)	
	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
Aug-20	\$ 116,305	\$ 116,305	\$ -	\$ -	\$ -	\$ 4,024
Sep-20		\$ 116,305	\$ 104,265	\$ 104,265	\$ 1,545	\$ 5,569
Oct-20		\$ 116,305	\$ 344	\$ 104,609	\$ 1,590	\$ 7,158
Nov-20		\$ 116,305	\$ 344	\$ 104,953	\$ 1,623	\$ 8,781
Dec-20		\$ 116,305	\$ 344	\$ 105,297	\$ 1,632	\$ 10,413
Jan-21		\$ 116,305	\$ 344	\$ 105,641	\$ 2,346	\$ 12,759
Feb-21		\$ 116,305	\$ 344	\$ 105,985	\$ 2,993	\$ 15,752
Mar-21		\$ 116,305	\$ 344	\$ 106,329	\$ 3,230	\$ 18,982
Apr-21		\$ 116,305	\$ 344	\$ 106,673	\$ 3,813	\$ 22,795
May-21		\$ 116,305	\$ 344	\$ 107,017	\$ 3,538	\$ 26,333
Jun-21		\$ 116,305	\$ 344	\$ 107,361	\$ 3,569	\$ 29,902
Jul-21		\$ 116,305	\$ 344	\$ 107,705	\$ 4,098	\$ 34,000
Aug-21		\$ 116,305	\$ 344	\$ 108,049	\$ 4,376	\$ 38,376
Sep-21		\$ 116,305	\$ 344	\$ 108,393	\$ 4,873	\$ 43,249
Oct-21		\$ 116,305	\$ 344	\$ 108,737	\$ 4,976	\$ 48,225
Nov-21		\$ 116,305	\$ 344	\$ 109,081	\$ 6,057	\$ 54,282
Dec-21		\$ 116,305	\$ 344	\$ 109,425	\$ 6,324	\$ 60,606
Jan-22		\$ 116,305	\$ 344	\$ 109,769	\$ 6,564	\$ 67,170
Feb-22		\$ 116,305	\$ 344	\$ 110,113	\$ 6,878	\$ 74,048
Mar-22		\$ 116,305	\$ 344	\$ 110,457	\$ 6,644	\$ 80,692
Apr-22		\$ 116,305	\$ 344	\$ 110,801	\$ 6,587	\$ 87,279
May-22		\$ 116,305	\$ 344	\$ 111,145	\$ 5,216	\$ 92,495
Jun-22		\$ 116,305	\$ 344	\$ 111,489	\$ 4,210	\$ 96,705
Jul-22		\$ 116,305	\$ 344	\$ 111,833	\$ 3,827	\$ 100,532
Aug-22		\$ 116,305	\$ 344	\$ 112,177	\$ 3,620	\$ 104,152
Sep-22		\$ 116,305	\$ 344	\$ 112,521	\$ 3,398	\$ 107,550
Oct-22		\$ 116,305	\$ 344	\$ 112,865	\$ 1,429	\$ 108,979
Nov-22		\$ 116,305	\$ 344	\$ 113,209	\$ 1,588	\$ 110,567
Dec-22		\$ 116,305	\$ 344	\$ 113,553	\$ 981	\$ 111,548
Jan-23		\$ 116,305	\$ 344	\$ 113,897	\$ 524	\$ 112,072
Feb-23		\$ 116,305	\$ 344	\$ 114,241	\$ 454	\$ 112,526
Mar-23		\$ 116,305	\$ 344	\$ 114,585	\$ 442	\$ 112,968
Apr-23		\$ 116,305	\$ 344	\$ 114,929	\$ 2,034	\$ 115,002
May-23		\$ 116,305	\$ 344	\$ 115,273	\$ 918	\$ 115,920
Jun-23		\$ 116,305	\$ 344	\$ 115,617	\$ 385	\$ 116,305
Jul-23		\$ 116,305	\$ 344	\$ 115,961	\$ -	\$ 116,305
Aug-23		\$ 116,305	\$ 344	\$ 116,305	\$ -	\$ 116,305

Note 1 : Assumes funds are available for obligation no later than 1 Aug 2020 and NTP issued in Sep 2020. (Aug FY20 award projection lock in schedule being reviewed)

Note 2: Project fully funded in a FY20 budget request. Phase 1 FY20 :\$116.3M

Note 3: Project fully funded in a FY20 budget request. Phase 1 FY20 :\$116.3M

Note 4: Reserve for termination costs includes 6 months look ahead for placement value \$ -