



Department of the Air Force

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# **Military Construction Program**

**Fiscal Year (FY) 2018  
Budget Estimates**

**Justification Data Submitted to Congress  
May 2017**

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**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2018  
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**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION AND MILITARY FAMILY HOUSING FISCAL YEAR 2018  
PROGRAM SUMMARY**

	<b>Authorization Request <u>(\$000s)</u></b>	<b>Appropriation Request <u>(\$000s)</u></b>
<b>Military Construction</b>		
Major Construction	1,585,244	1,609,544
Unspecified Minor Construction (10 USC 2805)	-	31,400
Planning and Design (10 USC 2807)	-	97,852
<b>Total Military Construction</b>	<b>1,585,244</b>	<b>1,738,796</b>
<b>Military Family Housing</b>		
New Construction	-	-
Improvements	80,617	80,617
Planning and Design	4,445	4,445
<b>Subtotal</b>	<b>85,062</b>	<b>85,062</b>
Operations, Utilities and Maintenance	279,937	279,937
Operations	98,244	98,244
Utilities	47,504	47,504
Maintenance	134,189	134,189
Privatization	21,569	21,569
Leasing	16,818	16,818
<b>Subtotal</b>	<b>318,324</b>	<b>318,324</b>
<b>Total Military Family Housing</b>	<b>403,386</b>	<b>403,386</b>
<b>Grand Total Air Force</b>	<b>1,988,630</b>	<b>2,142,182</b>

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**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2018  
INDEX - INSIDE THE US  
(DOLLARS IN THOUSANDS)**

STATE	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
ALASKA	Eielson	Repair Central Heat/Power Plant Boiler PH 4	41,000	41,000
		F-35A OSS/Weapons/Intel Facility	11,800	11,800
		F-35A AGE Facility / Fillstand	21,000	21,000
		F-35A R-11 Fuel Truck Shelter	9,600	9,600
		F-35A Satellite Dining Facility	8,000	8,000
		F-35A Consolidated Munitions Admin Facility	27,000	27,000
		F-35A ADAL Conventional Munitions Facility	2,500	2,500
		F-35A Extend Utiliduct to South Loop	48,000	48,000
	Eielson TOTAL:	168,900	168,900	
	ALASKA TOTAL:	168,900	168,900	
COLORADO	Buckley	SBIRS Operations Facility	38,000	38,000
		Buckley TOTAL:	38,000	38,000
	Fort Carson	13 ASOS Expansion	13,000	13,000
		Fort Carson TOTAL:	13,000	13,000
	US Air Force Academy	Air Force CyberWorx	30,000	30,000
		USAF TOTAL:	30,000	30,000
	COLORADO TOTAL:	81,000	81,000	
FLORIDA	Eglin	F-35A Armament Research Fac Addition (B614)	8,700	8,700
		Long-Range Stand-Off Acquisition Fac	38,000	38,000
		Eglin TOTAL:	46,700	46,700
	MacDill	KC135 Beddown OG/MXG HQ	8,100	8,100
		MacDill TOTAL:	8,100	8,100
	FLORIDA TOTAL:	54,800	54,800	
GEORGIA	Robins	Commercial Vehicle Visitor Control Facility	9,800	9,800
		Moody TOTAL:	9,800	9,800
		GEORGIA TOTAL:	9,800	9,800
KANSAS	McConnell	Combat Arms Facility	17,500	17,500
		McConnell TOTAL:	17,500	17,500
		KANSAS TOTAL:	17,500	17,500
MARYLAND	JB Andrews	PAR Land Acquisition	17,500	17,500
		Presidential Aircraft Recap Complex	254,000	254,000
		JB Andrews TOTAL:	271,500	271,500
	MARYLAND TOTAL:	271,500	271,500	
MASSACHUSETTS	Hanscom	Vandenberg Gate Complex	-	11,400
		Hanscom TOTAL:	-	11,400
		MASSACHUSETTS TOTAL:	0	11,400
NEVADA	Nellis	RED FLAG 5th Gen Facility Addition	23,000	23,000
		Virtual Warfare Cetner Operations Facility	38,000	38,000
		Nellis TOTAL:	61,000	61,000
	NEVADA TOTAL:	61,000	61,000	
NEW MEXICO	Cannon	Dangerous Cargo Pad Relocate CATM	42,000	42,000
		Cannon TOTAL:	42,000	42,000
	Holloman	RPA Fixed Ground Control Station Facility	4,250	4,250
		Holloman TOTAL:	4,250	4,250
	NEW MEXICO TOTAL:	46,250	46,250	
NORTH DAKOTA	Minot	Indoor Firing Range	27,000	27,000
		Minot TOTAL:	27,000	27,000
		NORTH DAKOTA TOTAL:	27,000	27,000
OKLAHOMA	Altus	KC-46A FTU Fuselage Trainer Phase 2	4,900	4,900
		Altus TOTAL:	4,900	4,900
		OKLAHOMA TOTAL:	4,900	4,900

STATE	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
TEXAS	JBSA - Lackland	Air Traffic Control Tower	10,000	10,000
		BMT Recruit Dormitory 7	90,130	90,130
		BMT Classrooms/Dining Facility 4	38,000	38,000
		JBSA - Lackland TOTAL:	<u>138,130</u>	<u>138,130</u>
	JBSA - Fort Sam Houston	Camp Bullis Dining Facility	18,500	18,500
		JBSA - Fort Sam Houston TOTAL:	<u>18,500</u>	<u>18,500</u>
		TEXAS TOTAL:	156,630	156,630
UTAH	Hill	UTTR Consolidated Mission Control Center	28,000	28,000
		Hill TOTAL:	<u>28,000</u>	<u>28,000</u>
		UTAH TOTAL:	28,000	28,000
WYOMING	FE Warren	Consolidated Helo/TRF Ops/AMU and Alert Fac	62,000	62,000
		FE Warren TOTAL:	<u>62,000</u>	<u>62,000</u>
		WYOMING TOTAL:	62,000	62,000
WORLDWIDE	Unspecified	KC-46A Main Operating Base 4	269,000	269,000
		UNSPECIFIED TOTAL:	269,000	269,000
		INSIDE THE US TOTAL:	<u>1,258,280</u>	<u>1,269,680</u>

**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2018  
INDEX - OUTSIDE THE US  
(DOLLARS IN THOUSANDS)**

COUNTRY	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
AUSTRALIA	RAAF Darwin	APR - Bulk Fuel Storage Tanks	76,000	76,000
		RAAF Darwin TOTAL:	76,000	76,000
		AUSTRALIA TOTAL:	76,000	76,000
COMMONWEALTH OF NORTHERN MARIANA ISLANDS	Tinian	APR - Land Acquisition	-	12,900
		Tinian TOTAL:	-	12,900
		COMMONWEALTH OF NORTHERN MARIANA ISLANDS TOTAL:	0	12,900
ITALY	Aviano	Guardian Angel Operations Facility	27,325	27,325
		Aviano TOTAL:	27,325	27,325
		ITALY TOTAL:	27,325	27,325
QATAR	Al Udeid	Consolidated Squadron Operations Facility	15,000	15,000
		Al Udeid TOTAL:	15,000	15,000
		QATAR TOTAL:	15,000	15,000
TURKEY	Incirlik	Dormitory - 216 PN	25,997	25,997
		Incirlik TOTAL:	25,997	25,997
		TURKEY TOTAL:	25,997	25,997
UNITED KINGDOM	RAF Fairford	EIC - RC-135 Intel and Squad Ops Facility	38,000	38,000
		EIC - RC-135 Runway Overrun Reconfiguration	5,500	5,500
		EIC - RC-135 Infrastructure	2,150	2,150
		RAF Fairford TOTAL:	45,650	45,650
	RAF Lakenheath	Consolidated Corrosion Control Facility	20,000	20,000
		F-35A F-15 Parking	10,800	10,800
		F-35A Flight Simulator Facility	22,000	22,000
		F-35A Field Training Detachment Facility	12,492	12,492
		F-35A Infrastructure	6,700	6,700
		F-35A 6-Bay Hangar	24,000	24,000
		F-35A Squadron Operations and AMU	41,000	41,000
		RAF Lakenheath TOTAL:	136,992	136,992
		UNITED KINGDOM TOTAL:	182,642	182,642
		OUTSIDE THE US TOTAL:	326,964	339,864
WORLDWIDE UNSPECIFIED	Various Locations	Planning and Design	-	97,852
	Various Locations	Unspecified Minor Military Construction	-	31,400
		WORLDWIDE UNSPECIFIED TOTAL:	0	129,252
		INSIDE THE US TOTAL:	1,258,280	1,269,680
		OUTSIDE THE US TOTAL:	326,964	339,864
		WORLDWIDE UNSPECIFIED TOTAL:	0	129,252
		FY 2018 TOTAL:	1,585,244	1,738,796

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**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2018  
NEW AND CURRENT MISSION**

**DEFINITIONS OF NEW AND CURRENT MISSION**

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

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

<b><u>FY18</u></b>	<b>Appropriation Request <u>(\$000)</u></b>
<b>NEW MISSION</b>	<b>1,172,967</b>
<b>CURRENT MISSION</b>	<b>436,577</b>
<b>PLANNING &amp; DESIGN</b>	<b>97,852</b>
<b>MINOR CONSTRUCTION</b>	<b>31,400</b>
<b>TOTAL:</b>	<b>1,738,796</b>

**DEPARTMENT OF THE AIR FORCE**  
**MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2018**  
**INDEX - CURRENT/NEW MISSION BREAKOUT**  
**(DOLLARS IN THOUSANDS)**

STATE/COUNTRY	INSTALLATION	PROJECT	APPROPRIATION	
			REQUEST	TYPE
ALASKA	Eielson	Repair Central Heat/Power Plant Boiler PH 4	41,000	CM
COLORADO	Buckley	SBIRS Operations Facility	38,000	CM
GEORGIA	Robins	Commercial Vehicle Visitor Control Facility	9,800	CM
KANSAS	McConnell	Combat Arms Facility	17,500	CM
MASSACHUSETTS	Hanscom	Vandenberg Gate Complex	11,400	CM
NEW MEXICO	Cannon	Dangerous Cargo Pad Relocate CATM	42,000	CM
NEW MEXICO	Holloman	RPA Fixed Ground Control Station Facility	4,250	CM
NORTH DAKOTA	Minot	Indoor Firing Range	27,000	CM
QATAR	Al Udeid	Consolidated Squadron Operations Facility	15,000	CM
TURKEY	Incirlik	Dormitory - 216 PN	25,997	CM
TEXAS	JBSA-Fort Sam Houston	Camp Bullis Dining Facility	18,500	CM
TEXAS	JBSA-Lackland	Air Traffic Control Tower	10,000	CM
TEXAS	JBSA-Lackland	BMT Recruit Dormitory 7	90,130	CM
TEXAS	JBSA-Lackland	BMT Classrooms/Dining Facility 4	38,000	CM
UNITED KINGDOM	RAF Lakenheath	Consolidated Corrosion Control Facility	20,000	CM
UTAH	Hill	UTTR Consolidated Mission Control Center	28,000	CM
<b>Current Mission TOTAL</b>			<b>436,577</b>	

STATE/COUNTRY	INSTALLATION	PROJECT	APPROPRIATION	
			REQUEST	TYPE
ALASKA	Eielson	F-35A OSS/Weapons/Intel Facility	11,800	NM
ALASKA	Eielson	F-35A AGE Facility / Fillstand	21,000	NM
ALASKA	Eielson	F-35A R-11 Fuel Truck Shelter	9,600	NM
ALASKA	Eielson	F-35A ADAL Conventional Munitions Facility	2,500	NM
ALASKA	Eielson	F-35A Consolidated Munitions Admin Facility	27,000	NM
ALASKA	Eielson	F-35A Satellite Dining Facility	8,000	NM
ALASKA	Eielson	F-35A Extend Utiliduct to South Loop	48,000	NM
AUSTRALIA	RAAF Darwin	APR - Bulk Fuel Storage Tanks	76,000	NM
CNMI	Tinian	APR - Land Acquisition	12,900	NM
COLORADO	Fort Carson	13 ASOS Expansion	13,000	NM
COLORADO	USAFA	Air Force CyberWorx	30,000	NM
FLORIDA	Eglin	F-35A Armament Research Fac Addition (B614)	8,700	NM
FLORIDA	Eglin	Long-Range Stand-Off Acquisition Fac	38,000	NM
FLORIDA	MacDill	KC135 Beddown OG/MXG HQ	8,100	NM
ITALY	Aviano	Guardian Angel Operations Facility	27,325	NM
MARYLAND	JB Andrews	PAR Land Acquisition	17,500	NM
MARYLAND	JB Andrews	Presidential Aircraft Recap Complex	254,000	NM
NEVADA	Nellis	RED FLAG 5th Gen Facility Addition	23,000	NM
NEVADA	Nellis	Virtual Warfare Center Operations Facility	38,000	NM
OKLAHOMA	Altus	KC-46A FTU Fuselage Trainer Phase 2	4,900	NM
UNITED KINGDOM	RAF Fairford	EIC - RC-135 Intel and Squad Ops Facility	38,000	NM
UNITED KINGDOM	RAF Fairford	EIC - RC-135 Runway Overrun Reconfiguration	5,500	NM
UNITED KINGDOM	RAF Fairford	EIC - RC-135 Infrastructure	2,150	NM
UNITED KINGDOM	RAF Lakenheath	F-35A Flight Simulator Facility	22,000	NM
UNITED KINGDOM	RAF Lakenheath	F-35A F-15 Parking	10,800	NM
UNITED KINGDOM	RAF Lakenheath	F-35A Field Training Detachment Facility	12,492	NM
UNITED KINGDOM	RAF Lakenheath	F-35A Infrastructure	6,700	NM
UNITED KINGDOM	RAF Lakenheath	F-35A 6-Bay Hangar	24,000	NM
UNITED KINGDOM	RAF Lakenheath	F-35A Squadron Operations and AMU	41,000	NM
WORLDWIDE LOCATION	Unspecified	KC-46A Main Operating Base 4	269,000	NM
WYOMING	FE Warren	Consolidated Helo/TRF Ops/AMU and Alert Fac	62,000	NM
<b>New Mission TOTAL</b>			<b>1,172,967</b>	
WORLDWIDE UNSPECIFIED	Various Locations	Planning and Design	97,852	P&D
WORLDWIDE UNSPECIFIED	Various Locations	Unspecified Minor Military Construction	31,400	UMMC
<b>Central Program TOTAL</b>			<b>129,252</b>	
<b>Active AF Program TOTAL</b>			<b>1,738,796</b>	

**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2018  
INSTALLATION INDEX**

<b><u>INSTALLATION</u></b>	<b><u>COMMAND</u></b>	<b><u>STATE/COUNTRY</u></b>	<b><u>PAGE</u></b>
AL UDEID	AFCENT	QATAR	167
ALTUS	AETC	OKLAHOMA	123
AVIANO	USAFE	ITALY	163
BUCKLEY	AFSPC	COLORADO	55
CANNON	AFSOC	NEW MEXICO	109
EGLIN	AFMC	FLORIDA	67
EIELSON	PACAF	ALASKA	29
FE WARREN	AFGSC	WYOMING	147
FORT CARSON	ACC	COLORADO	59
HANSCOM	AFMC	MASSACHUSETTS	95
HILL	AFMC	UTAH	142
HOLLOMAN	ACC	NEW MEXICO	114
INCIRLIK	USAFE	TURKEY	171
JB ANDREWS	AFDW	MARYLAND	86
JB SAN ANTONIO – LACKLAND	AETC	TEXAS	127
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MINOT	AFGSC	NORTH DAKOTA	118
NELLIS	ACC	NEVADA	100
RAAF DARWIN	PACAF	AUSTRALIA	155
RAF FAIRFORD	USAFE	UNITED KINGDOM	175
RAF LAKENHEATH	USAFE	UNITED KINGDOM	186
ROBINS	AFMC	GEORGIA	78
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**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2018  
SPECIAL PROGRAM CONSIDERATIONS**

**ECONOMIC CONSIDERATIONS**

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

**DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL**

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

**ENVIRONMENTAL STATEMENT**

In accordance with Section 102(2)(c) of the National Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process (EIAP) has been completed or is actively underway for all projects in the Air Force FY 2018 Military Construction Program.

**EVALUATION OF FLOOD PLAINS AND WETLANDS**

All projects in the program have been evaluated for compliance with Executive Orders 11988 *Flood Plain Management* and 11990 *Protection of Wetlands* and the Flood Plain Management Guidelines of U.S. Water Resources Council. Projects have been sited to avoid or reduce the risk of flood loss; minimize the impact of floods on human safety, health and welfare; preserve and enhance the natural and beneficial values of wetlands; and minimize the destruction, loss or degradation of wetlands.

**DEPARTMENT OF THE AIR FORCE**  
**MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2018**  
**CONGRESSIONAL REPORTING REQUIREMENTS**

**1. STATEMENTS ON NATO ELIGIBILITY**

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

**2. NEW AND CURRENT MISSION ACTIVITIES**

The FY 1989 Senate Appropriations Committee Report, 100-380, pages 10 and 11, identified a requirement to include an exhibit in the budget justification books that displayed required projects in two separate categories: New Mission and Current Mission. The CM (current mission) or NM (new mission) designation, which follows the project on the listing at page 9, identifies each project as new or current mission. Additionally, each justification in Block 11 of the DD Form 1391 indicates whether the project supports a new or current mission.

**3. REAL PROPERTY ADMINISTRATION**

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

**4. METRIC CONVERSION**

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

**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2018  
NON-MILCON FUNDING**

**Research and Development (RDT&E)    NONE**

**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2018  
APPROPRIATION SOUGHT FOR PREVIOUSLY AUTHORIZED PROJECTS**

**APPROPRIATIONS SOUGHT FOR FY17 AUTHORIZATIONS**

In the FY2018 President's Budget, the Department is requesting appropriation in the amount of \$24.3 million total for two projects that were fully authorized in the National Defense Authorization Act for Fiscal Year 2017 (P.L. 114-328). The Hanscom Air Force Base Vandenberg Gate Complex was authorized from the Air Force's un-funded priority listing, but was not appropriated for in the Continuing Appropriations and Military Construction, Veterans Affairs, and Related Agencies Appropriations Act, 2017 and Zika Response and Preparedness Act (P.L. 114-223). The first appropriation for the Commonwealth of Northern Mariana Islands Asia-Pacific Resiliency Land Acquisition was included in the Continuing Appropriations and Military Construction, Veterans Affairs, and Related Agencies Appropriations Act, 2017 and Zika Response and Preparedness Act (P.L. 114-223) and the Department is requesting the second and final required appropriation for the land acquisition in this request.

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE VANDENBERG GATE COMPLEX		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 730-832	7. RPSUID/PROJECT NUMBER 2487/MXRD083000	8. PROJECT COST (\$000) 11,400	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				2,297
VISITOR CENTER (730-832)	SM	187	5,209	( 974 )
GATEHOUSE / ID CHECK (730-839)	SM	52	4,315	( 224 )
COMMERCIAL VEH INPSECTION FAC (730-839)	SM	164	4,315	( 708 )
POV INSPECTION AREA (730-839)	SM	73	4,437	( 324 )
OVERWATCH (730-839)	SM	5	4,315	( 22 )
SUSTAINABILITY AND ENERGY MEASURES	LS			( 45 )
SUPPORTING FACILITIES				7,623
UTILITIES	LS			( 1,600 )
SITE IMPROVEMENTS	LS			( 1,040 )
PAVEMENTS	LS			( 3,150 )
COMMUNICATIONS	LS			( 560 )
DEMOLITION	SM	29	784	( 23 )
PASSIVE SECURITY MEASURES	LS			( 750 )
EMERGENCY GENERATOR / TRANSFER SWITCH	LS			( 500 )
SUBTOTAL				9,919
CONTINGENCY (5.0%)				496
TOTAL CONTRACT COST				10,415
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				594
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				397
TOTAL REQUEST				11,406
TOTAL REQUEST (ROUNDED)				11,400
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				( 83 )
<p>10. Description of Proposed Construction: Construct a main entrance gate complex including a visitor center, gatehouse with canopy and ID check stations, commercial vehicle inspection facility, privately owned vehicle (POV) inspection facility, and an overwatch facility at Hanscom Air Force Base. Facility construction will consist of reinforced concrete foundations, structural steel frames and split faced block veneer as well as standing seam metal roofs. The project will include all necessary utilities, site improvements, pavements, communications infrastructure, passive security infrastructure, an emergency backup generator with auto transfer switch and all other supporting necessary to make complete and useable facilities. The project will demolish two facilities (29 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Minimum Antiterrorism Standards for Buildings requirements per UFC 4-010-01.</p> <p>Air Conditioning: 3 Tons</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS			4. PROJECT TITLE VANDENBERG GATE COMPLEX	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  730-832	7. RPSUID/PROJECT NUMBER  2487/MXRD083000	8. PROJECT COST (\$000)  11,400	
<p>11. Requirement: 521 SM    Adequate: 40 SM    Substandard: 29 SM  <u>PROJECT:</u> Vandenberg Gate Complex (Current Mission)  <u>REQUIREMENT:</u> Hanscom Air Force Base requires an antiterrorism/force protection (AT/FP) compliant gate complex to ensure the safety of base personnel as well as security forces personnel who operate the gate. The project would provide a new entry control facility to include a new visitor's center, gatehouse with canopy, commercial vehicle gatehouse, covered commercial vehicle inspection facility, and covered POV inspection area. The approach road to the base would be demolished and realigned to include striping, sidewalks, utilities, security bollards, drainage structures, manholes, landscaping, signage, vehicle barriers, under vehicle lighting for searches, emergency generator, fencing, and communications infrastructure. This project was validated as part of the HQ AFMC Vulnerability Study, Sep 1999 and at the Hanscom AFB Force Protection Revalidation, June 2001 and annual base level Force Protection Working Group, since Oct 2001.  <u>CURRENT SITUATION:</u> The existing Vandenberg Gate operates as both a commercial vehicle gate as well as a POV gate; however it does not comply with current AT/FP standards. The existing roadway geometry allows undesirable approach speeds to the Entry Control Facility. The current layout does not allow for separation of POVs from commercial delivery vehicles, which causes traffic to back-up towards Route 2A, a major local thoroughfare, while trucks are waiting to be searched. The on-base POV/truck search area is a makeshift inspection area blocked off by cones and concrete barriers. This configuration impedes traffic flow, puts inspection personnel in danger being close to traffic, and forces vehicles to improperly navigate the existing road system. The visitor's center is small and forces many visitors queuing outside the entry door. In addition, there is no vehicle rejection before coming onto base.  Existing vehicular access gates to Hanscom AFB provide nominal security with steel gates with temporary water-filled barriers and armed guards. The Child Development Center (CDC), the Clinic, and the Air Force Life Cycle Management Center (AFLCMC) complex are all within very close proximity to the gate and search area with no additional protection.  <u>IMPACT IF NOT PROVIDED:</u> The mission of the Hanscom AFB would continue to be severely impacted because this gate would remain out of compliance, increasing the potential for a security incident. If not corrected, the gate will continue to operate with workarounds out of compliance with ATFP standards, which poses significant risk to the base populace.  <u>ADDITIONAL:</u> This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." An economic analysis evaluating status quo, construction of a new inspection facility only, construction of a new gate complex (this request) and relocation of the base boundary was accomplished. This analysis shows construction of a new gate complex as the most cost effective alternative which meets mission requirements. Base Civil Engineer: 781-225-2999. Visitor Center: 187 SM = 2013 SF; Gatehouse / ID Check: 52 SM = 560 SF; Commercial Vehicle Inspection Facility: 164 SM = 1765 SF; POV Inspection Area: 73 SM = 786 SF; Overwatch: 5 SM = 54 SF. Project was Authorized in Fiscal Year 2017.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE VANDENBERG GATE COMPLEX	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  730-832	7. RPSUID/PROJECT NUMBER  2487/MXRD083000	8. PROJECT COST (\$000)  11,400
<p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE VANDENBERG GATE COMPLEX	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 730-832	7. PROJECT NUMBER 2487/MXRD083000	8. PROJECT COST (\$000) 11,400
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			456
(4) Construction Contract Award			18 AUG
(5) Construction Start			18 SEP
(6) Construction Completion			20 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE, FIXTURES AND EQUIP	3400	2018	20
CLOSED CAPTION TV EQUIPMENT	3400	2018	33
COMMUNICATIONS EQUIPMENT	3400	2018	30

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION TINIAN  NORTHERN MARIANA ISLANDS		4. PROJECT TITLE APR - LAND ACQUISITION			
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  911-146	7. RPSUID/PROJECT NUMBER  /PAF160300B	8. PROJECT COST (\$000)  12,900		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					19,616
LAND ACQUISITION		HA	142	138,140	( 19,616 )
SUPPORTING FACILITIES					0
SUBTOTAL					19,616
CONTINGENCY (5.0%)					981
TOTAL CONTRACT COST					20,597
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)					1,277
TOTAL REQUEST					21,874
TOTAL REQUEST (ROUNDED)					21,900
10. Description of Proposed Construction: Acquires not more than 142 hectares of land (in fee or long-term lease) for the construction of Air Force military training facilities and infrastructure in support of air operations for divert, exercises, and natural disaster response. Land parcels are required to be acquired from the Commonwealth of Northern Mariana Islands (CNMI) through the Commonwealth Port Authority. Land acquisition is to be accomplished in accordance with DoD Instruction 4165.71, Real Property Acquisition.					
11. Requirement: 142 HA Adequate: 0 HA Substandard: 0 HA PROJECT: Asia Pacific Resiliency (APR) - Land Acquisition (New Mission) REQUIREMENT: The Air Force will acquire land either in fee or by long-term lease for the construction of Air Force military training facilities and infrastructure in support of Air Operations for divert, exercises, and natural disaster response in the CNMI. The Air Force intends to acquire an interest in this land for a minimum of 25 years. The Air Force is prepared to lease the property at a cost that comports to the policy stated in the 1976 Covenant between the government of CNMI and the United States and will acquire only the minimum real property interest necessary to meet the mission requirement. The Air Force is willing to purchase this land by fee if the CNMI government is willing to sell it. CURRENT SITUATION: The Air Force, in coordination with the CNMI government, has decided to locate the Divert and Exercise Mission at Tinian, CNMI. Acquisition of non-Federal land in fee or by long-term lease is required to construct the operational and support infrastructure necessary to execute the Divert and Exercise Mission. Existing federally-leased land in CNMI does not include parcels required for this mission. IMPACT IF NOT PROVIDED: Without securing rights for the needed land parcels, none of the projects that support the Divert and Exercise Mission within CNMI can be constructed. Initial Air Operations capability cannot be achieved until these facilities are constructed, depriving the Air Force of this much-needed operational capability.					

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3. INSTALLATION, SITE AND LOCATION TINIAN  NORTHERN MARIANA ISLANDS			4. PROJECT TITLE APR - LAND ACQUISITION																	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  911-146	7. RPSUID/PROJECT NUMBER  /PAF160300B	8. PROJECT COST (\$000)  12,900																	
<p>ADDITIONAL: This project was submitted to Congress (Project Number PAF160300) as part of the FY 2017 President's Budget Request, before a final location was announced. The scope contained all of the land needed for this requirement (142 hectares); however, the cost per acre of the land located at Tinian is higher than our original estimate at an "unspecified" location. Therefore, the FY 2018 President's budget includes:</p> <ul style="list-style-type: none"> <li>- Division B language that amends the FY 2017 National Defense Authorization Act (NDAA) to reflect Tinian as the location and a project cost \$21.9M.</li> <li>- A request for an FY 2018 appropriation (\$12.9M) to fully fund this project.</li> </ul> <table border="0"> <thead> <tr> <th style="text-align: left;">FY (\$M)</th> <th style="text-align: center;">Authorization</th> <th style="text-align: center;">Authorized of Appropriation</th> <th style="text-align: center;">Appropriation</th> </tr> </thead> <tbody> <tr> <td>2017 Enacted</td> <td style="text-align: center;">\$9.0</td> <td style="text-align: center;">\$9.0</td> <td style="text-align: center;">\$9.0</td> </tr> <tr> <td>2018 Request</td> <td style="text-align: center;">*</td> <td style="text-align: center;">\$12.9</td> <td style="text-align: center;">\$12.9</td> </tr> <tr> <td>Total</td> <td style="text-align: center;">\$21.9</td> <td style="text-align: center;">\$21.9</td> <td style="text-align: center;">\$21.9</td> </tr> </tbody> </table> <p>* FY 2018 Division B requests full cost of \$21.9M at Tinian.</p> <p>An Economic Analysis (EA) was performed by the Navy IAW with Department of Defense guidance. The Navy prepared a Cost Estimate to more fully inform the fair market value determination prior to negotiations with CNMI. Base Civil Engineer: 808-449-3810. 142 hectares = 350 acres.</p> <p>HISTORY OF BASE BOUNDARY: Not applicable</p> <p>LONG TERM REAL ESTATE: Long-term Lease is required to support planned new construction.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>					FY (\$M)	Authorization	Authorized of Appropriation	Appropriation	2017 Enacted	\$9.0	\$9.0	\$9.0	2018 Request	*	\$12.9	\$12.9	Total	\$21.9	\$21.9	\$21.9
FY (\$M)	Authorization	Authorized of Appropriation	Appropriation																	
2017 Enacted	\$9.0	\$9.0	\$9.0																	
2018 Request	*	\$12.9	\$12.9																	
Total	\$21.9	\$21.9	\$21.9																	

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5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 911-146	7. PROJECT NUMBER /PAF160300B	8. PROJECT COST (\$000) 12,900																										
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Date Design Started</td> <td>01-FEB-18</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td></td> </tr> <tr> <td>(c) Percent Complete as of 01 JAN 2017</td> <td></td> </tr> <tr> <td>(d) Date 35% Designed</td> <td>01-FEB-18</td> </tr> <tr> <td>(e) Date Design Complete</td> <td>01-FEB-18</td> </tr> <tr> <td>(f) Energy Study/Life-Cycle analysis was/will be performed</td> <td>NO</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>0</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>0</td> </tr> <tr> <td>(c) Total</td> <td>0</td> </tr> <tr> <td>(d) Contract</td> <td>0</td> </tr> <tr> <td>(e) In-house</td> <td>0</td> </tr> </table> <p>(4) Construction Contract Award 18 FEB</p> <p>(5) Construction Start 18 FEB</p> <p>(6) Construction Completion 18 FEB</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>				(a) Date Design Started	01-FEB-18	(b) Parametric Cost Estimates used to develop costs		(c) Percent Complete as of 01 JAN 2017		(d) Date 35% Designed	01-FEB-18	(e) Date Design Complete	01-FEB-18	(f) Energy Study/Life-Cycle analysis was/will be performed	NO	(a) Standard or Definitive Design -	NO	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	0	(b) All Other Design Costs	0	(c) Total	0	(d) Contract	0	(e) In-house	0
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**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2018  
APPROPRIATIONS LANGUAGE**

**FY2018 MILITARY CONSTRUCTION, AIR FORCE**

**For acquisition, construction, installation and equipment of temporary or permanent public works, military installations, facilities, and real property of the Air Force as currently authorized by law \$1,738,796,000 to remain available until September 30, 2022: Provided that, of this amount, not to exceed \$97,852,000 shall be available for study, planning, design, and architect and engineer services, as authorized by law, unless the Secretary of the Air Force determines that additional obligations are necessary for such purposes and notifies the Committees on Appropriations of both Houses of Congress of her determination and the reasons therefore.**

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<b>1. COMPONENT</b> AIR FORCE		<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20160930				
<b>3. INSTALLATION AND LOCATION</b> EIELSON AIR FORCE BASE ALASKA					<b>4. COMMAND</b> PACIFIC AIR FORCES			<b>5. AREA CONSTRUCTION COST INDEX</b> 2.34			
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>TOTAL</b>
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-Sep-16		167	1700	382	4	21	0	167	654	137	<b>3,232</b>
b. END FY 2022		265	2759	435	4	21	0	167	654	137	<b>4,442</b>
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE		24,429									
b. INVENTORY TOTAL AS OF 30-Sep-16		4,733,306									
c. AUTHORIZATION NOT YET IN INVENTORY		535,900									
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2018)		168,900									
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)		0									
f. REMAINING DEFICIENCY		133,650									
g. GRAND TOTAL		<b>5,571,756</b>									
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)</b>											
		<b>a. CATEGORY</b>					<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>		
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>				<b>(3) SCOPE</b>					<b>(1) START</b>	<b>(2) COMPLETE</b>
218-712	F-35A AGE Facility / Fillstand				2,494 SM			21,000		Design/Build	
141-453	F-35A OSS/Weapons/Intel Facility				1,128 SM			11,800		Design/Build	
610-144	F-35A Consolidated Munitions Admin Facility				1,951 SM			27,000		Design/Build	
216-642	F-35A ADAL Conventional Munitions Facility				238 SM			2,500		Design/Build	
214-426	F-35A R-11 Fuel Truck Shelter				539 SM			9,600		Design/Build	
890-181	F-35A Extend Utiliduct to South Loop				3,235 LM			48,000		05/16	09/17
722-351	F-35A Satellite Dining Facility				975 SM			8,000		Design/Build	
821-117	Repair Central Heat/Power Plant Boiler PH 4				120,000 LB			41,000		Design/Build	
<b>TOTAL</b>								<b>168,900</b>			
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022)</b>											
<b>FUTURE PROJECTS TOTAL</b>											
<b>0</b>											
<b>R&amp;M UNFUNDED REQUIREMENT (\$M)</b>											
<b>TOTAL 26.7</b>											
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
Eielson AFB is home to the 354th Fighter Wing. Its mission is to train, deliver, maintain, and support combat power across the globe while taking care of our people, their families, and our infrastructure; it is host to an operations group with an F-16 Squadron, and maintenance, mission support and medical groups, as well as 10 tenant units, to include Alaska's Air National Guard 168th Refueling Wing and the future F-35 mission.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022)</b>											
a. Air Pollution											
b. Water Pollution											
c. Occupational Safety and Health											
d. Other Environmental											
<b>OUTSTANDING DEFICIENCIES TOTAL</b>											
<b>0</b>											

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE REPAIR CENTRAL HEAT/POWER PLANT BOILER PH 4			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 821-117	7. RPSUID/PROJECT NUMBER 1703/FTQWL43001	8. PROJECT COST (\$000) 41,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					31,082
STRUCTURAL RENOVATIONS (821-117)		SM	400	1,197	( 479 )
BOILER CONSTRUCTION		LB	120,000	242	( 29,040 )
FLUE CONSTRUCTION		LS			( 23 )
CONTROLS		LS			( 190 )
START-UP COMMISSIONING & RELATED		LS			( 457 )
ELECTRICAL		LS			( 283 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 609 )
SUPPORTING FACILITIES					4,173
SITE IMPROVEMENTS		LS			( 166 )
MODIFICATIONS OF EXISTING FACILITIES		LS			( 169 )
DEMOLITION OF INTERIOR TANK		LS			( 620 )
ENVIRONMENTAL REMEDIATION		LS			( 3,218 )
SUBTOTAL					35,255
CONTINGENCY (5.0%)					1,763
TOTAL CONTRACT COST					37,017
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					2,406
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					1,410
TOTAL REQUEST					40,834
TOTAL REQUEST (ROUNDED)					41,000
10. Description of Proposed Construction: Repair by replacement a 120,000 lb/hr boiler to include demolition of the existing 2,511 SM boiler at Eielson AFB. The project includes demolition of existing boiler #2, a new 120,000 lb/hr spread stoker coal fired steam boiler and all auxiliary equipment to support boiler operations. Auxiliary equipment includes coal feed, ash handling, condensate handling, deaerator and boiler feed water, mud drum pre-heat, soot blowers, boiler combustion air and forced draft fans, boiler flue gas, induced draft fans and stacks, as well as extensions of the plant controls, electrical, glycol and steam systems, and installation of emission control equipment to make system fully operational. New environmental control elements, selective catalytic reduction utilizing aqueous ammonia to control nitrogen oxide and dry flue gas desulfurization to control sulfur dioxide, will be included as part of the boiler package. Additionally, a continuous emission monitoring system and a continuous opacity monitoring system will be required. Existing baghouses will be utilized. This project will include all utilities, supporting facilities and equipment for a complete and usable facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE REPAIR CENTRAL HEAT/POWER PLANT BOILER PH 4		
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  821-117	7. RPSUID/PROJECT NUMBER  1703/FTQW143001	8. PROJECT COST (\$000)  41,000	
Requirements. This project will comply with DoD Antiterrorism/force protection requirements per UFC 4-010-01.				
11. Requirement: 600000 LB Adequate: 360000 LB Substandard: 720000 LB				
<u>PROJECT:</u> Repair Central Heat and Power Plant Boiler PH 4 (Current Mission)				
<u>REQUIREMENT:</u> Reliable steam production is vital to ensure the base has a continuous supply of heat and electricity for base facilities. The new boiler will replace the existing spreader stoker boiler #2, currently derated to 100,000 lb/hr. No additional footprint is anticipated for this replacement. The boiler will be replaced with a 120,000 lb/hr unit operating at the same steam pressure and temperature as the existing boiler. This project supports the long-term energy plan for the installation for reliability and redundancy.				
<u>CURRENT SITUATION:</u> Boiler #2, installed in 1951, has deteriorated well beyond the level of regular maintenance. Insulation and refractory brick have deteriorated significantly resulting in "hot spots" on the boiler casing forcing it to be derated to 100,000 lb/hr or 83% of its original capacity. Boiler tube failures are now common due to corrosion, erosion and long term exposure to high heat. The ash handling system has become unreliable due to age, wear and long term exposure to high heat. Maintenance has become extremely difficult due to frequent mechanical failures and out-of-production components.				
<u>IMPACT IF NOT PROVIDED:</u> Failure of boiler #2 is expected within the next 3-4 years. During typical operations, Eielson's Coal Heat and Power Plant (CH&PP) provides all electrical power and steam heat for the base. Loss of heat and power during Eielson's sub-arctic winters, with temperatures as low as 65F below zero, would be devastating to facilities and the missions housed in those facilities. If the situation were deemed critical enough, the base would be forced to consider evacuating facilities due to a lack of heat and power. Once closed, the facilities would freeze and require many millions of dollars of repair to return to usable condition. Completing the planned replacement of all boilers will guarantee continued steam and power generation to support the flying mission.				
<u>ADDITIONAL:</u> This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." A preliminary analysis of reasonable options for satisfying this requirement indicated replacement is the only option which will meet mission needs. An Economic Analysis Waiver has been approved. This project represents the fourth of a five phase initiative to replace six 50-year old boilers at Eielson's CH&PP with five new boilers over several years. 354th Fighter Wing Base Civil Engineer: (907) 377-5213. Structural Renovations: 400 SM = 4306 SF.				
<u>JOINT USE CERTIFICATION:</u> This is an installation utility/infrastructure project, and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.				

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5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 821-117	7. PROJECT NUMBER 1703/FTQW143001	8. PROJECT COST (\$000) 41,000
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) All Other Design Costs 1,640</p> <p>(4) Construction Contract Award 18 AUG</p> <p>(5) Construction Start 18 SEP</p> <p>(6) Construction Completion 20 DEC</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>			

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A OSS/WEAPONS/INTEL FACILITY			
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 141-453	7. RPSUID/PROJECT NUMBER 1703/FTQW180102	8. PROJECT COST (\$000) 11,800		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					7,484
OSS/WEAPONS/INTEL		SM	1,128	6,503	( 7,335 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 149 )
SUPPORTING FACILITIES					2,656
SITE IMPROVEMENTS		LS			( 56 )
UTILITIES		LS			( 986 )
EMERGENCY BACKUP GENERATOR		LS			( 130 )
COMMUNICATIONS		LS			( 217 )
PAVEMENTS		LS			( 1,042 )
ENVIRONMENTAL REMEDIATION		LS			( 150 )
ARCHEOLOGICAL MONITORING		LS			( 75 )
SUBTOTAL					10,140
CONTINGENCY (5.0%)					507
TOTAL CONTRACT COST					10,647
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					692
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					406
TOTAL REQUEST					11,745
TOTAL REQUEST (ROUNDED)					11,800
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 655 )
<p>10. Description of Proposed Construction: Construct an F-35A Operations Support Squadron (OSS)/Weapons &amp; Tactics/Intelligence with cast-in-place reinforced footing and foundation walls, split-face CMU walls, and a standing seam metal roof, utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. Project will include fire suppression systems, all utilities, backup power generator, pavements, communications, site improvements, and associated supporting facilities to provide a complete and useable facility. The facility must be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.</p> <p>Air Conditioning: 33 Tons</p>					
<p>11. Requirement: 1797 SM Adequate: 669 SM Substandard: 0 SM</p> <p><u>PROJECT:</u> F-35A OSS/Weapons/Intel Facility (New Mission)</p> <p><u>REQUIREMENT:</u> This project is required to provide facility space for OSS, Weapons &amp;</p>					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A OSS/WEAPONS/INTEL FACILITY	
5. PROGRAM ELEMENT  27142	6. CATEGORY CODE  141-453	7. RPSUID/PROJECT NUMBER  1703/FTQW180102	8. PROJECT COST (\$000)  11,800	
<p>Tactics, and Intelligence supporting the F-35 mission which is scheduled to arrive middle of FY20. The building must include an administrative work area for 55 F-35A personnel, storage, conference and training spaces, a break room, restrooms with showers, arctic entries, and rooms for utilities. A Secure Compartmented Information Facility (SCIF) must be added to meet ICD/ICS 705 as required. A Special Access Program Facility (SAPF) space will be constructed and interior walls configured to support the security requirements of the intelligence missions. The SAPF areas will be constructed to meet Joint Air Force, Army, Navy Manual (JAFANM) 6/9, "Physical Security Standards."</p> <p>CURRENT SITUATION: The existing Operations Support Squadron and Base Operations facilities do not have adequate space to support the F-35 beddown at Eielson AFB. The existing facility is outdated and lacks sufficient secured and administrative space to accommodate the requirements of the new mission. Additionally, space is required for the Command, Scheduling/Harm, and Training sections, as well as space for the Weapons, Tactics and Intelligence missions.</p> <p>IMPACT IF NOT PROVIDED: The new F-35A Mission at Eielson Air Force Base (AFB), Alaska will be at risk due to inadequate facilities to support critical secure space, and functional/administrative requirements of the Operations Support Squadron. The existing facility does not have the proper secure data support capability, space or configuration to support the requirements of this new mission and will lead to negative impacts on aircraft readiness, inability of the installation to sustain F-35A operations, and overall direct impacts to mission objectives to support stability and security in the Asia-Pacific region.</p> <p>ADDITIONAL: This project meets the criteria in AFMAN 32-1084, "Facility Requirements." All known alternative options were considered during the development of this project. An analysis of reasonable options for accomplishing this project was completed, indicating a new facility to be the best solution. The reason for the cost of supporting facilities is more than 25% of the cost of primary facilities due to the over-excavation requirement to address permafrost issues with the top soil being removed and replaced with non-frost susceptible material. 354th Fighter Wing Base Civil Engineer: (907) 377-5213. OSS/Weapons/Intel facility: 1,128 SM = 12,142 SF.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A OSS/WEAPONS/INTEL FACILITY	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 141-453	7. PROJECT NUMBER 1703/FTQW180102	8. PROJECT COST (\$000) 11,800
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			468
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			20 DEC
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHINGS	3400	2019	275
COMMUNICATIONS	3080	2019	138
UNINTERRUPTABLE POWER SUPPLY	3080	2018	242

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A AGE FACILITY / FILLSTAND			
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 218-712	7. RPSUID/PROJECT NUMBER 1703/FTQW180103	8. PROJECT COST (\$000) 21,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					14,370
AIRCRAFT SUPPORT EQUIPMENT FACILITY (218-712)		SM	2,328	5,756	( 13,400 )
VEHICLE FUELING SYSTEM (123-335)		SM	166	4,112	( 683 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 287 )
SUPPORTING FACILITIES					4,106
SITE IMPROVEMENTS		LS			( 2,429 )
UTILITIES		LS			( 623 )
COMMUNICATIONS		LS			( 145 )
PAVEMENTS		LS			( 684 )
ENVIRONMENTAL REMEDIATION		LS			( 150 )
ARCHEOLOGICAL MONITORING		LS			( 75 )
SUBTOTAL					18,476
CONTINGENCY (5.0%)					924
TOTAL CONTRACT COST					19,399
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					1,261
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					739
TOTAL REQUEST					21,399
TOTAL REQUEST (ROUNDED)					21,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 188 )
<p>10. Description of Proposed Construction: Construct an Aerospace Ground Equipment (AGE) Facility with a fuel fillstand and covered storage and for F-35 aircraft, with cast-in-place reinforced footing and foundation walls, split-face CMU walls, and a standing seam metal roof, utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. Project will include fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. In addition, local materials and construction techniques shall be used to be cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 6 Tons</p>					
<p>11. Requirement: 6977 SM Adequate: 4483 SM Substandard: 0 SM</p> <p><u>PROJECT:</u> F-35 AGE Facility / Fillstand (New Mission)</p> <p><u>REQUIREMENT:</u> An adequately sized and configured AGE facility is required to</p>					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A AGE FACILITY / FILLSTAND	
5. PROGRAM ELEMENT  27142	6. CATEGORY CODE  218-712	7. RPSUID/PROJECT NUMBER  1703/FTQW180103	8. PROJECT COST (\$000)  21,000	
<p>support the F-35A beddown which is scheduled to arrive middle of FY20. The new facility must include a high bay service and maintenance shop, heated covered storage, and supporting administrative and building support space to accommodate the service and maintenance requirements of the F-35A. The maintenance shop must include space for shop workers, an inspection bay, open service and inspection area, wash rack, and maintenance support room. A fuel fillstand with overhead canopy is required to accommodate the added equipment needing fuel brought by the F-35 mission.</p> <p><u>CURRENT SITUATION:</u> The existing AGE facilities lack adequate space to support the requirements of the new F-35A mission. The existing AGE facilities are at capacity and lack sufficient maintenance and storage space to support additional AGE. The number of authorized pieces of AGE is increasing from 592 pieces to 942 pieces. This large increase in equipment requires additional space to conduct maintenance and store equipment.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Without this facility there is not sufficient shop or covered storage space for the support equipment being assigned to support the F-35A beddown. Eielson AFB would not be able to sustain F-35A operations, directly impacting PACOM and PACAF mission objectives and possibly the stability and security of the Asia-Pacific region.</p> <p><u>ADDITIONAL:</u> This project meets the criteria in AFMAN 32-1084 Facility Requirements, dated 20 April 2012. The reason for the cost of supporting facilities is more than 25% of the cost of primary facilities due to the over-excavation requirement to address permafrost issues with the top soil being removed and replaced with non-frost susceptible material. All known alternative options were considered during the development of this project. An analysis of reasonable options for accomplishing this project was completed, indicating a new facility to be the best solution. An economic analysis will be performed to verify the initial assessment result. 354th Fighter Wing Base Civil Engineer: (907) 377-5213. New AGE Facility / Fillstand: Aircraft Support Equipment Facility (218-712): 2,328 SM = 25,058 SF, Vehicle Fueling System (123-335): 166 SM = 1,787 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A AGE FACILITY / FILLSTAND	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 218-712	7. PROJECT NUMBER 1703/FTQW180103	8. PROJECT COST (\$000) 21,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			856
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			20 JUN
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHINGS	3400	2019	125
COMMUNICATIONS	3400	2019	63

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A R-11 FUEL TRUCK SHELTER			
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 214-426	7. RPSUID/PROJECT NUMBER 1703/FTQW180105	8. PROJECT COST (\$000) 9,600		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					3,795
R-11 FUEL TRUCK SHELTER		SM	539	6,903	( 3,721 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 74 )
SUPPORTING FACILITIES					4,509
SITE IMPROVEMENTS		LS			( 1,444 )
UTILITIES		LS			( 2,367 )
COMMUNICATIONS		LS			( 120 )
PAVEMENTS		LS			( 353 )
ENVIRONMENTAL REMEDIATION		LS			( 150 )
ARCHEOLOGICAL MONITORING		LS			( 75 )
SUBTOTAL					8,304
CONTINGENCY (5.0%)					415
TOTAL CONTRACT COST					8,719
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					567
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					332
TOTAL REQUEST					9,618
TOTAL REQUEST (ROUNDED)					9,600
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					15
<p>10. Description of Proposed Construction: Construct an enclosed R-11 Fuel Truck Shelter with cast-in-place reinforced footing and foundation walls, split-face CMU walls, and a standing seam metal roof, utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. Project will include fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. In addition, local materials and construction techniques shall be used cost effectively. The Facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. The facility will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 2 Tons</p>					
<p>11. Requirement: 2536 SM Adequate: 1997 SM Substandard: SM</p> <p><u>PROJECT:</u> F-35A R-11 Fuel Truck Shelter. (New Mission)</p> <p><u>REQUIREMENT:</u> This project will construct a new R-11 fuel truck shelter to support the flying schedule of two F-35 squadrons during weather conditions that negatively</p>					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A R-11 FUEL TRUCK SHELTER	
5. PROGRAM ELEMENT  27142	6. CATEGORY CODE  214-426	7. RPSUID/PROJECT NUMBER  1703/FTQW180105	8. PROJECT COST (\$000)  9,600	
<p>impact fuel delivery operations. The newly constructed facility will provide a six bay structure for R-11 parking and support areas that include a ready room, restroom, janitor's closet/storage, and supporting mechanical, electrical, and communications spaces.</p> <p><u>CURRENT SITUATION:</u> The extreme arctic cold causes R-11 fuel trucks' pneumatics and pump systems to freeze when exposed to outdoor temperature for more than 15-30 minutes. Once frozen, these systems must either be parked inside a warm bay for approximately 30 minutes or have a heat cart direct warm air immediately onto the frozen systems for approximately 30 minutes. Eielson AFB is currently short warm storage for R-11 fuel trucks, which exposes them to the elements and renders portions of the vehicle fleet non-mission-capable from November through March of each year.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The R-11 Fuel Truck Shelter facility is required to support the refueling requirements of two F-35 squadrons. If this facility is not provided, fuel trucks will be required to drive 2.5 miles (approximately 20 minutes) from the main fuel yard to reach the aircraft apron, leaving less than 10 minutes for fueling operations before fuel truck systems begin to freeze. There is a high risk that the R-11 trucks' pneumatic and pump systems will require thawing by a mobile heater, requiring additional equipment and manpower and delaying aircraft fueling approximately 30 minutes. The absence of a fuel truck shelter will have negative impacts on aircraft readiness, F-35A operations, and direct impact on the PACOM and PACAF mission objectives to support stability and security in the Asia-Pacific region.</p> <p><u>ADDITIONAL:</u> This project meets the criteria in AFMAN 32-1084 "Facility Requirements." All known alternative options were considered during the development of this project. An analysis of reasonable options for accomplishing this project was completed, indicating a new facility to be the best solution. The reason for the cost of supporting facilities is more than 25% of the cost of primary facilities due to the over-excavation requirement to address permafrost issues with the top soil being removed and replaced with non-frost susceptible material. 354th Fighter Wing Base Civil Engineer: (907) 377-5213. R-11 Fuel Truck Shelter: 539 SM = 5,802 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A R-11 FUEL TRUCK SHELTER	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 214-426	7. PROJECT NUMBER 1703/FTQW180105	8. PROJECT COST (\$000) 9,600
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) All Other Design Costs 384</p> <p>(4) Construction Contract Award 18 FEB</p> <p>(5) Construction Start 18 MAR</p> <p>(6) Construction Completion 19 DEC</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project provided from other appropriations:</p>			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHINGS	3400	2019	10
COMMUNICATIONS	3400	2019	5

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A SATELLITE DINING FACILITY			
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 722-351	7. RPSUID/PROJECT NUMBER 1703/FTQW180106	8. PROJECT COST (\$000) 8,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					4,980
SATELLITE DINING FACILITY		SM	437	11,172	( 4,882 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 98 )
SUPPORTING FACILITIES					1,908
UTILITIES		LS			( 157 )
SITE IMPROVEMENTS		LS			( 1,296 )
PAVEMENTS		LS			( 196 )
COMMUNICATIONS		LS			( 34 )
ENVIRONMENTAL REMEDIATION		LS			( 150 )
ARCHEOLOGICAL		LS			( 75 )
SUBTOTAL					6,888
CONTINGENCY (5.0%)					344
TOTAL CONTRACT COST					7,233
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					470
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					276
TOTAL REQUEST					7,978
TOTAL REQUEST (ROUNDED)					8,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					1,100
<p>10. Description of Proposed Construction: Construct a dining facility with cast-in-place reinforced footing and foundation walls, split-face CMU walls, and a standing seam metal roof, utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards, utilizing economical design and construction methods as feasible. Project will include fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01 and UFC 4-722-01, Dining Facilities.</p> <p>Air Conditioning: 17 Tons</p>					
<p>11. Requirement: 437 SM Adequate: 0 SM Substandard: 0 SM</p> <p><u>PROJECT:</u> F-35A Satellite Dining Facility (New Mission)</p> <p><u>REQUIREMENT:</u> Construct a new satellite dining facility on the southeast side of</p>					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A SATELLITE DINING FACILITY	
5. PROGRAM ELEMENT  27142	6. CATEGORY CODE  722-351	7. RPSUID/PROJECT NUMBER  1703/FTQW180106	8. PROJECT COST (\$000)  8,000	
<p>Eielson AFB in support of the F-35 new mission beddown to serve 900 meals per serving time in support of 1500+ operation and maintenance personnel associated with the F-35 flying mission, which are set to arrive the middle of FY20.</p> <p><u>CURRENT SITUATION:</u> The requirement is driven by a large influx of new personnel operating within the F-35 beddown area on the south side of the base. The south side has no food vendors and where the most urgent requirement for a dining facility exists. Since Eielson is a remote location, 90% of personnel are authorized to be served during the meal period. The current dining facility that supports the additional personnel is located over three miles driving distance from their work areas. The time it takes to travel to and from the dining facility leaves little time to eat, resulting in longer meal periods. So, in order to support the flying schedule, many airmen miss meals. This is compounded by arctic winter weather much of the year poses a potential detriment to the mission effectiveness and accomplishment.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Personnel will have to commute over six miles roundtrip for one meal in order to utilize the existing dining facility. The average round trip commute time for one meal will be 40 minutes. Transport by bus of personnel will add time to the commute pushing it to one hour. Under bad weather conditions, this time easily exceeds an hour. This, in turn, adds stress to Airmen already limited by daily flying and maintenance schedules, and increases the risk of Airmen skipping nutritional meals because of these additional time constraints. The personnel who will be commuting to the existing dining facility will also contribute to more traffic congestion through the munitions storage area, fuels storage area and at the main gate intersection; this will interfere with incoming and outgoing traffic to the base at meal times.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope in Air Force Handbook 32-1084, "Facility Requirements". All known alternative options were considered during the development of this project based on a preliminary economic analysis; no other option could meet the mission requirement. Therefore, a certificate of exception has been prepared. The reason for the cost of supporting facilities is more than 25% of the cost of primary facilities due to the over-excavation requirement to address permafrost issues with the top soil being removed and replaced with non-frost susceptible material. 354th Fighter Wing Base Civil Engineer: (907) 377-5213. Satellite Dining Facility: 437 SM = 4,704 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A SATELLITE DINING FACILITY	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 722-351	7. PROJECT NUMBER 1703/FTQW180106	8. PROJECT COST (\$000) 8,000
12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Project to be accomplished by design-build procedures (2) Basis: (a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used - (3) All Other Design Costs 320 (4) Construction Contract Award 18 FEB (5) Construction Start 18 MAR (6) Construction Completion 19 DEC (7) Energy Study/Life-Cycle analysis was/will be performed YES			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
KITCHEN EQUIPMENT	3080	2019	950
COMM EQUIPMENT	3400	2019	150

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A CONSOLIDATED MUNITIONS ADMIN FACILITY			
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 610-144	7. RPSUID/PROJECT NUMBER 1703/FTQWL80107	8. PROJECT COST (\$000) 27,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					14,477
MUNITIONS ADMINISTRATIVE FACILITY (610-144)		SM	1,137	7,250	( 8,243 )
HEATED VEHICLE STORAGE (214-426)		SM	183	7,175	( 1,313 )
MUNITIONS TRAINING BAY (216-642)		SM	148	8,119	( 1,202 )
EQUIPMENT MAINTENANCE BAY (218-712)		SM	483	7,112	( 3,435 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 284 )
SUPPORTING FACILITIES					8,433
SITE IMPROVEMENTS		LS			( 3,850 )
UTILITIES		LS			( 2,499 )
COMMUNICATIONS		LS			( 134 )
PAVEMENTS		LS			( 1,725 )
ENVIRONMENTAL REMEDIATION		LS			( 150 )
ARCHEOLOGICAL MONITORING		LS			( 75 )
SUBTOTAL					22,910
CONTINGENCY (5.0%)					1,145
TOTAL CONTRACT COST					24,055
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					1,564
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					916
TOTAL REQUEST					26,535
TOTAL REQUEST (ROUNDED)					27,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 728 )
10. Description of Proposed Construction: Construct a Consolidated Munitions Facility and supporting facilities for F-35 aircraft, with cast-in-place reinforced footing and foundation walls, split-face CMU walls, and a standing seam metal roof, utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. Project will include fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 20 Tons					
11. Requirement: 3626 SM Adequate: 1675 SM Substandard: 0 SM					
PROJECT: F-35A Consolidated Munitions Admin Facility. (New Mission)					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A CONSOLIDATED MUNITIONS ADMIN FACILITY	
5. PROGRAM ELEMENT  27142	6. CATEGORY CODE  610-144	7. RPSUID/PROJECT NUMBER  1703/FTQW180107	8. PROJECT COST (\$000)  27,000	
<p><b>REQUIREMENT:</b> An adequately sized, configured, and consolidated munitions facility is required for the increase in mission and population at Eielson AFB associated with the F-35A beddown, which is scheduled to arrive middle of FY20. The newly constructed facility will provide administrative spaces for Munitions Command, Control, Operations, Mobility, Line Delivery, Storage, Conventional Munitions Training, and Munitions Support Equipment Maintenance functions. Additionally, three open bay areas will be constructed to support Vehicle Operations Heated Storage, Conventional Munitions Training, and Munitions Support Equipment Maintenance activities. Building support spaces such as primary circulation, mechanical, electrical, and communications spaces will be provided along with 45 POV parking spaces and organizational parking to accommodate vehicles and equipment of varying sizes.</p> <p><b>CURRENT SITUATION:</b> The existing Consolidated Munitions Facility (Building 3462) supports the 354th Fighter Wing with munitions capabilities for flight line operations, base security, and rapid response to contingency operations, along with peacetime training. The existing space is significantly undersized for the functional areas and personnel that must be accommodated to support the F-35A beyond the current mission. Building 3462 does not currently provide space for Munitions Command, Mobility, Training, or Line Delivery functions. Building 3425 will no longer be available as heated parking for organizational vehicles that support munitions, contributing to a greater need for additional space. The existing facility does not have the capacity to accommodate a Munitions Support Equipment Maintenance Bay and Munitions Support Equipment Maintenance Storage space that are adequately sized for the increased mission requirement. Overall, existing facility space is undersized for future operational requirements and will not support the mission of the 354th Fighter Wing.</p> <p><b>IMPACT IF NOT PROVIDED:</b> The Consolidated Munitions Facility is required in the FY18 program to support the increase in mission, operations, and personnel associated with the new F-35A beddown at Eielson AFB. Currently, there is not adequate space to accommodate administrative, training, storage, and maintenance functions of munitions. If this project is not provided, the installation will be unable to sustain F-35A operations, directly impacting United States Pacific Command and Pacific Air Forces mission objectives to support stability and security in the Asia-Pacific region.</p> <p><b>ADDITIONAL:</b> This project meets the criteria in AFMAN 32-1084 Facility Requirements, dated 20 April 2012. All known alternative options were considered during the development of this project. An analysis of reasonable options for accomplishing this project was completed, indicating a new facility to be the best solution. The reason for the cost of supporting facilities is more than 25% of the cost of primary facilities due to the over-excavation requirement to address permafrost issues with the top soil being removed and replaced with non-frost susceptible material. 354th Fighter Wing Base Civil Engineer: (907) 377-5213. Consolidated Munitions Facility: Munitions Administrative Facility (610-144): 1,137 SM = 12,239 SF, Heated Vehicle Storage (214-426): 183 SM = 1,970 SF, Munitions Training Bay (216-642): 148 SM = 1,593 SF, Equipment Maintenance Bay (218-712): 483</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A CONSOLIDATED MUNITIONS ADMIN FACILITY	
5. PROGRAM ELEMENT  27142	6. CATEGORY CODE  610-144	7. RPSUID/PROJECT NUMBER  1703/FTQW180107	8. PROJECT COST (\$000)  27,000
<p>SM = 5,199 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A CONSOLIDATED MUNITIONS ADMIN FACILITY	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 610-144	7. PROJECT NUMBER 1703/FTQW180107	8. PROJECT COST (\$000) 27,000
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) All Other Design Costs 1,060</p> <p>(4) Construction Contract Award 18 FEB</p> <p>(5) Construction Start 18 MAR</p> <p>(6) Construction Completion 21 JUN</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project provided from other appropriations:</p>			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHINGS	3400	2019	485
COMMUNICATIONS	3400	2019	243

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A ADAL CONVENTIONAL MUNITIONS FACILITY			
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 216-642	7. RPSUID/PROJECT NUMBER 1703/FTQWL80108	8. PROJECT COST (\$000) 2,500		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					1,532
ADD CONVENTIONAL MUNITIONS FACILITY		SM	117	9,323	( 1,091 )
ALTER CONVENTIONAL MUNITIONS FACILITY		SM	100	4,111	( 411 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 30 )
SUPPORTING FACILITIES					620
UTILITIES		LS			( 52 )
PAVEMENTS		LS			( 19 )
SITE IMPROVEMENTS		LS			( 324 )
ENVIRONMENTAL		LS			( 150 )
ARCHEOLOGICAL		LS			( 75 )
SUBTOTAL					2,152
CONTINGENCY (5.0%)					108
TOTAL CONTRACT COST					2,259
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					147
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					86
TOTAL REQUEST					2,492
TOTAL REQUEST (ROUNDED)					2,500
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 150 )
<p>10. Description of Proposed Construction: Add/Alter a Conventional Munitions facility and supporting facilities for F-35 aircraft, with cast-in-place reinforced footing and foundation walls, split-face CMU walls, and a standing seam metal roof, utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. Additionally, the project will include fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. The facility must be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. The facility will be compatible with applicable DoD, Air Force, and base design standards and designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 0 Tons</p>					
<p>11. Requirement: 19656 SM Adequate: 19439 SM Substandard: 100 SM</p> <p><u>PROJECT:</u> F-35A ADAL Conventional Munitions Facility (New Mission)</p> <p><u>REQUIREMENT:</u> Construct an addition onto the conventional munitions facility and alter existing administrative area. The addition and altered areas are admin spaces</p>					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A ADAL CONVENTIONAL MUNITIONS FACILITY	
5. PROGRAM ELEMENT  27142	6. CATEGORY CODE  216-642	7. RPSUID/PROJECT NUMBER  1703/FTQW180108	8. PROJECT COST (\$000)  2,500	
<p>to support an increase from 6 to 40 personnel, who are scheduled to arrive at the beginning of FY20 in support of the F-35 beddown.</p> <p><u>CURRENT SITUATION:</u> Currently the conventional munitions facility has six personnel assigned that conduct the limited munitions activities required to support the assigned training coded aircraft. The facility has adequate maintenance bays to support the munitions activities anticipated with the F-35, but the administrative area isn't large enough for the 36 additional personnel.</p> <p><u>IMPACT IF NOT PROVIDED:</u> If there isn't a facility to support the additional personnel, they would be divided among other munitions facilities a minimum of 3.5 miles from the conventional munitions facility. Without this project there could be significant degradation in operational capability of the assigned F-35s.</p> <p><u>ADDITIONAL:</u> This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". All known alternative options were considered during the development of this project. An analysis of reasonable options for accomplishing this project was completed, indicating a new facility to be the best solution. The reason for the cost of supporting facilities is more than 25% of the cost of primary facilities due to the over-excavation requirement to address permafrost issues with the top soil being removed and replaced with non-frost susceptible material. 354th Fighter Wing Base Civil Engineer: (907) 377-5213, ADD Conventional Munitions Facility: 117 SM = 1,259 SF, ALTER Conventional Munitions Facility: 100 SM = 1,076 SF</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A ADAL CONVENTIONAL MUNITIONS FACILITY	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 216-642	7. PROJECT NUMBER 1703/FTQW180108	8. PROJECT COST (\$000) 2,500
12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Project to be accomplished by design-build procedures (2) Basis: (a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used - (3) All Other Design Costs 100 (4) Construction Contract Award 18 FEB (5) Construction Start 18 MAR (6) Construction Completion 19 JUN (7) Energy Study/Life-Cycle analysis was/will be performed YES			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHINGS	3400	2019	100
COMMUNICATIONS EQUIP	3400	2019	50

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A EXTEND UTILIDUCT TO SOUTH LOOP		
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 890-181	7. RPSUID/PROJECT NUMBER 1703/FTQW180111	8. PROJECT COST (\$000) 48,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					42,495
ADD UTILIDUCT		LM	2,715	13,200	( 35,838 )
ALTER UTILIDUCT		LM	520	11,200	( 5,824 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 833 )
SUPPORTING FACILITIES					771
PAVEMENTS		LS			( 296 )
WETLAND REMEDIATION		LS			( 250 )
ENVIRONMENTAL		LS			( 150 )
ARCHEOLOGICAL		LS			( 75 )
SUBTOTAL					43,266
CONTINGENCY (5.0%)					2,163
TOTAL CONTRACT COST					45,430
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					2,953
TOTAL REQUEST					48,382
TOTAL REQUEST (ROUNDED)					48,000
10. Description of Proposed Construction: ADAL steam and water piping in a utility line duct enclosure (utiliduct, a shallow buried concrete vault used to route utilities) starting at the Central Heat & Power Plant (CHPP), ending just past Building 1337 on the South Loop. Proposed piping consists of a steam line, condensate return line, water and sewer mains. Electrical work includes installation of sump pumps, manhole lighting, manhole power outlets, and manhole services at 400 foot intervals and associated support facilities to provide a complete and useable facility. All excavations and disturbed areas will have their surfaces returned to their original condition. The facility should be compatible with applicable DoD, Air Force, and base design standards. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC 1-200-01 and UFC 1-200-02). This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
11. Requirement: 100000 LB Adequate: 50000 LB Substandard: 50000 LB PROJECT: F-35A Extend Utiliduct to South Loop (New Mission) REQUIREMENT: With the arrival of F-35 aircraft projected for the middle of FY20, the majority of new facilities to be built for the beddown will be located on the South Loop. This requires an additional 50,000 Lb/Hr (LBH) of steam to be delivered to these facilities. The current distribution system is at capacity, thus an additional 50,000 Lb/Hr distribution capacity is required. A new steam line system is required to increase both volume and pressure to provide the required distribution capacity. Also, a looped steam line is required for the proposed facilities to meet industry standards for resiliency in case of line breaks and					

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3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A EXTEND UTILIDUCT TO SOUTH LOOP	
5. PROGRAM ELEMENT  27142	6. CATEGORY CODE  890-181	7. RPSUID/PROJECT NUMBER  1703/FTQW180111	8. PROJECT COST (\$000)  48,000	
<p>loss of heat to facilities under arctic conditions. A resilient source of steam is critical to ensure personnel safety and facility survivability in the extreme cold experienced at this arctic base. A waterline is also required to meet facilities criteria for fire suppression. Looping the dead-end waterline is needed to eliminate a key vulnerability as well as to provide adequate pressures and water flow needed for fire suppression in aircraft facilities. Sewer mains in the existing utiliduct are required to discharge sewage from existing facilities located adjacent to the existing utiliduct. Utilities on base are distributed through a complex system of concrete encased utilidors and utiliducts due to the harsh arctic conditions and shallow, acidic groundwater experienced at Eielson AFB. Piping not housed within concrete utility line ducts, and buried less than 15-feet from the surface, is at increased risk of rupture due to frost heaving, as well as severe corrosion, reducing life cycles to 10-15 years or less.</p> <p><b>CURRENT SITUATION:</b> The CHPP typically provides all steam heat for the installation. A study of the CHPP and steam distribution system in Feb 2016 determined that the steam distribution system is currently operating at its maximum capacity and cannot support additional demands for heat by new facilities. The steam piping distribution system is the weak link, and does not have the capacity to meet the demand that comes with the F-35 beddown. Also, the existing 3.2KM dead end line presents a significant mission vulnerability to all facilities on the south loop, including the proposed F-35 mission. A break in that line during a period of extreme cold lasting longer than four hours could result in severe damage to the F-35 facilities due to a loss of heat and necessitate immediate evacuation of facility and a stoppage of mission. Sufficient back-up steam from emergency sources cannot replicate the heat that is lost if there is a break in this dead end line. Additionally, fire suppression for the existing facilities on the south loop is provided by a tank and pumping station, sized only to the current demand. Therefore, a looped water line is needed. The existing sewer mains are old and need to be replaced to minimize the potential for sewage leaks.</p> <p><b>IMPACT IF NOT PROVIDED:</b> Should a major utilidor trunk failure occur during the winter, the lost steam/heat capacity to the vital F-35 facilities at the end of the steam grid will cause catastrophic loss to mission-critical facilities. Mission impact and sortie generation will practically cease. During winter when temperatures drop to -40 degrees F, a complete loss of facilities and base heating lines could occur when steam heat is down for four hours or more. The loss of base real property assets would be in the hundreds of millions of dollars.</p> <p><b>ADDITIONAL:</b> This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." Other alternatives analyzed included construction of coal and diesel powered heat plants, which had significantly higher life cycle operations and maintenance costs. 354th Fighter Wing Base Civil Engineer: (907) 377-5213. Steam-Water Utiliduct: 3,235 LM = 10,615 LF.</p> <p><b>JOINT USE CERTIFICATION:</b> This is an installation utility/infrastructure project, and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.</p>				

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3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A EXTEND UTILIDUCT TO SOUTH LOOP	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 890-181	7. PROJECT NUMBER 1703/FTQW180111	8. PROJECT COST (\$000) 48,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			20-MAY-16
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2017			15%
* (d) Date 35% Designed			01-MAR-17
(e) Date Design Complete			01-SEP-17
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			2,880
(b) All Other Design Costs			1,440
(c) Total			4,320
(d) Contract			3,600
(e) In-house			720
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			20 JUN
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations: N/A			

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20160930					
<b>3. INSTALLATION AND LOCATION</b> BUCKLEY AIR FORCE BASE COLORADO					<b>4. COMMAND</b> AIR FORCE SPACE COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.1				
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>TOTAL</b>	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF	30-Sep-16	172	810	392	0	0	0	870	4217	1374	7,835	
b. END FY	2022	172	802	389	0	0	0	870	4217	1374	7,824	
<b>7. INVENTORY DATA (\$000)</b>												
a. TOTAL ACREAGE		4,239										
b. INVENTORY TOTAL AS OF		30-Sep-16										1,487,126
c. AUTHORIZATION NOT YET IN INVENTORY												13,500
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2018)												38,000
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)												0
f. REMAINING DEFICIENCY												15,000
g. GRAND TOTAL												1,553,626
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)</b>												
a. CATEGORY												
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>				<b>(3) SCOPE</b>			<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>		
131-200	SBIRS Operations Facility				5,845 SM			38,000		(1) START (2) COMPLETE Design/Build		
<b>TOTAL</b>								38,000				
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2019 - FY 2022)</b>												
FUTURE PROJECTS TOTAL 0												
<b>R&amp;M UNFUNDED REQUIREMENT (\$M)</b>												
										<b>TOTAL</b>		18.1
<b>10. MISSION OR MAJOR FUNCTIONS</b>												
The mission of the 460th Space Wing is to provide combatant commanders with expeditionary warrior Airmen and deliver global infrared surveillance, tracking and missile warning for theater and homeland defense.												
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022)</b>												
a. Air Pollution												
b. Water Pollution												
c. Occupational Safety and Health												
d. Other Environmental												
OUTSTANDING DEFICIENCIES TOTAL 0												

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION BUCKLEY AIR FORCE BASE BUCKLEY AFB SITE # 1 COLORADO		4. PROJECT TITLE SBIRS OPERATIONS FACILITY			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 131-200	7. RPSUID/PROJECT NUMBER 1530/CRWU093002	8. PROJECT COST (\$000) 38,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					23,423
SBIRS OPERATIONS FACILITY (131-200)		SM	5,715	3,934	( 22,483 )
MCS EMERGENCY POWER PLANT FACILITY (811-147)		SM	130	3,770	( 490 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 450 )
SUPPORTING FACILITIES					9,450
PAVEMENTS		LS			( 210 )
UTILITIES		LS			( 560 )
SITE IMPROVEMENTS		LS			( 1,100 )
SPECIAL FOUNDATIONS		LS			( 562 )
EXTERIOR COMMUNICATIONS SUPPORT		LS			( 1,750 )
DEMOLITION		SM	3,730	193	( 720 )
GENERATORS/SWITCHGEAR/ELECTRICAL DISTRO		LS			( 4,548 )
SUBTOTAL					32,873
CONTINGENCY (5.0%)					1,644
TOTAL CONTRACT COST					34,516
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					1,967
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					1,315
TOTAL REQUEST					37,799
TOTAL REQUEST (ROUNDED)					38,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					5,032
<p>10. Description of Proposed Construction: Construct a Space Based Infrared System (SBIRS) facility utilizing conventional design and construction methods to accommodate the mission of the facility. The facility will include reinforced concrete foundation and floor slab, concrete and concrete masonry unit walls structural steel frame and roof system. Project will include fire suppression systems, all utilities, emergency generator, and space for Uninterrupted Power Supply (UPS), pavements, communications, and site improvements and associated support facilities to provide a complete and useable facility. Additionally, an emergency generator and redundant commercial power feed will be provided for existing SBIRS Mission Control Station (MCS). This project demolishes two buildings (3730 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.</p> <p>Air Conditioning: 62 Tons</p>					
<p>11. Requirement: 12007 SM Adequate: 6162 SM Substandard: 7457 SM</p> <p>PROJECT: Construct SBIRS Operations Facility. (Current Mission)</p>					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION BUCKLEY AIR FORCE BASE BUCKLEY AFB SITE # 1 COLORADO			4. PROJECT TITLE SBIRS OPERATIONS FACILITY	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  131-200	7. RPSUID/PROJECT NUMBER  1530/CRWU093002	8. PROJECT COST (\$000)  38,000	
<p><b>REQUIREMENT:</b> The 460th Space Wing requires a properly sized and configured SBIRS Operations Facility (SOF) for the 2nd and 8th Space Warning Squadrons (SWS) currently located in buildings 429 and 431. The SOF will also consolidate related mission functions including key 460th Operations Group (460 OG) staff and 460th Operations Support Squadron (460 OSS). New support units arriving at Buckley include OG Det 1 (will become Computer Network Defense), 11 SWS (will become 11th Space Exploitation Squadron, 11 SES), and the 533d Training Squadron. These missions must operate within the Protection Level 1 (PL-1) restricted area (RA). Classified training labs and protected areas for Open Storage and SCIF are required. An emergency backup power plant is required for the MCS. A backup generator is also required for the relocated communications core node in building 431. The new core node must be operational prior to building 431 demolition. The alternate command post must be relocated by the 460 SW prior to the demolition of building 429.</p> <p><b>CURRENT SITUATION:</b> B429 and B431 are semi-permanent structures built in the early 1970s to support the Defense Support Program constellation. Neither is compliant with Architectural Barriers Act and National Electric Code. Both have a Risk Assessment Code (RAC) 2 assigned for serious roof structure code violations. Other required functions moving to Buckley include OG Det 1 (currently in leased space in Boulder, CO), 11 SES (currently at Schriever AFB), 533 TS (currently at Vandenberg AFB) and 460 OG staff (currently situated outside the PL-1 restricted area). The existing emergency power plant and primary commercial electrical feeder for the Mission Control Station (MCS) are unreliable and provided through the Aerospace Data Facility (ADF) which controlled by another Federal Agency.</p> <p><b>IMPACT IF NOT PROVIDED:</b> The increase in mission-related manpower in the 460 OG cannot be accommodated in the existing buildings. None of the facilities in the restricted area can be utilized long-term to support the increased mission. Current building conditions could impact the safety of mission equipment and personnel, severely jeopardizing the Air Force SBIRS mission. Building failures may cause temporary relocation of the mission to back-up facilities at Schriever AFB (90 miles away). Renovation and expansion of semi-permanent facilities more than 20 years beyond their expected useful life would be costly and only delay the need for new construction to support the critically important SBIRS mission and follow-on systems. Reliable emergency power will not be provided for the MCS.</p> <p><b>ADDITIONAL:</b> Except for general space guidance provided in AFMAN 32-1084, "Facility Requirements," there is no design criteria/scope for this type of project. Other space requirements are based on concept proposals and were validated by the user. An economic analysis evaluating renovation, addition/alteration, and new construction was accomplished. This analysis indicates that new construction is the most cost effective alternative that meets mission requirements. 460th Air Base Wing Base Civil Engineer: (720) 847-6501. SBIRS Operations Facility: 5,715 SM = 61,516 SF. Emergency Power Plant: 130 SM = 1,400 SF.</p> <p><b>JOINT USE CERTIFICATION:</b> Mission requirements, operational considerations, and location are incompatible with use by other components.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION BUCKLEY AIR FORCE BASE BUCKLEY AFB SITE # 1 COLORADO		4. PROJECT TITLE SBIRS OPERATIONS FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 131-200	7. PROJECT NUMBER 1530/CRWU093002	8. PROJECT COST (\$000) 38,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			1,520
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			20 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHINGS	3400	2020	3,559
COMMUNICATIONS	3080	2020	1,473

<b>1. COMPONENT</b> AIR FORCE			<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE (YYYYMMDD)</b> 20160930			
<b>3. INSTALLATION AND LOCATION</b> FORT CARSON COLORADO						<b>4. COMMAND</b> AIR COMBAT COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.09			
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>TOTAL</b>	
		<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>		
a. AS OF	30-Sep-16	23	111	1	0	0	0	0	0	0	135	
b. END FY	2022	29	143	1	0	0	0	0	0	0	173	
<b>7. INVENTORY DATA (\$000)</b>												
<b>a. TOTAL ACREAGE</b>		N/A Tenant										
<b>b. INVENTORY TOTAL AS OF</b>		30-Sep-16										
<b>c. AUTHORIZATION NOT YET IN INVENTORY</b>										13,000		
<b>d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2018)</b>										13,000		
<b>e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)</b>										0		
<b>f. REMAINING DEFICIENCY</b>										0		
<b>g. GRAND TOTAL</b>										26,000		
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)</b>												
<b>a. CATEGORY</b>												
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>				<b>(3) SCOPE</b>			<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>		
141-753	13 ASOS Expansion				3,345 SM			13,000		(1) START (2) COMPLETE Design/Build		
<b>TOTAL</b>								13,000				
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2019 - FY 2022)</b>												
										<b>FUTURE PROJECTS TOTAL</b>		0
<b>R&amp;M UNFUNDED REQUIREMENT (\$M)</b>										<b>TOTAL</b>		0.0
<b>10. MISSION OR MAJOR FUNCTIONS</b> The 13 ASOS mission is to enhance the Joint Warfighter Team by Providing Combat Mission Ready Airmen to Advise, Integrate & Control Air and Space Power in Support of the 4th Infantry Division.												
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022)</b>												
a. Air Pollution												
b. Water Pollution												
c. Occupational Safety and Health												
d. Other Environmental												
<b>OUTSTANDING DEFICIENCIES TOTAL</b>										0		

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION FT CARSON  COLORADO		4. PROJECT TITLE 13 ASOS EXPANSION			
5. PROGRAM ELEMENT  27418	6. CATEGORY CODE  141-753	7. RPSUID/PROJECT NUMBER  /ACC123301	8. PROJECT COST (\$000)  13,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					8,309
SQUADRON OPERATIONS (141-753)		SM	1,648	2,857	( 4,708 )
INTEGRATED MAINTENANCE SHOP (212-220)		SM	535	3,036	( 1,624 )
BASE SUPPLY AND EQUIPMENT SHED (442-628)		SM	298	910	( 271 )
VEHICLE OPERATIONS PARKING SHED (214-428)		SM	864	1,778	( 1,536 )
SUSTAINABILITY AND ENGERGY MEASURES		LS			( 169 )
SUPPORTING FACILITIES					2,710
UTILITIES		LS			( 1,029 )
PAVEMENTS		LS			( 610 )
SITE IMPROVEMENTS		LS			( 799 )
SPECIAL FOUNDATIONS		LS			( 272 )
SUBTOTAL					11,019
CONTINGENCY (5.0%)					551
TOTAL CONTRACT COST					11,570
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					660
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					441
TOTAL REQUEST					12,671
TOTAL REQUEST (ROUNDED)					13,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					390
<p>10. Description of Proposed Construction: Construct a maintenance shop, supply/equipment facility, vehicle storage shelter and expand the existing Air Support Operations Squadron (ASOS) facility utilizing conventional design and construction methods to accommodate the mission of the facilities. The facility will include special foundations designed for highly expansive soils and a steel framed structure with masonry veneer walls on steel studs. The roof system will consist of a factory finished standing seam sloped roof with rigid insulation board. Flat or low-slope roofing will be used over high-bay areas of the facility. Consideration will be given to exterior treatments to match existing Air Support Operations Squadron facilities. Project will include fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.</p> <p>Air Conditioning: 50 Tons</p>					
<p>11. Requirement: 8483 SM Adequate: 5138 SM Substandard: 0 SM</p> <p><u>PROJECT:</u> 13 ASOS Expansion (New Mission).</p>					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION FT CARSON  COLORADO		4. PROJECT TITLE 13 ASOS EXPANSION		
5. PROGRAM ELEMENT  27418	6. CATEGORY CODE  141-753	7. RPSUID/PROJECT NUMBER  /ACC123301	8. PROJECT COST (\$000)  13,000	
<p><b>REQUIREMENT:</b> The 13th Air Support Operations Squadron (ASOS) provides tactical command and control of close air support assets to US Army ground commanders of the 4th Infantry Division during combat operations. This facility shall provide workspace for approximately 38 personnel in their respective occupational functions, joint training and simulator space for approximately 35 Air Force and Army personnel in a secure open-storage environment, a SATCOM/Data trailer maintenance bay, Highly Mobile Multipurpose Wheeled Vehicle (HMMWV) minor maintenance workshop, high-density deployable equipment storage, Battlefield Airmen Management System (BAMS) storage and other associated support functions. Classified simulations require a secure area including intrusion detection system and alarm.</p> <p><b>CURRENT SITUATION:</b> Current facilities are adequately sized for the current mission requirements, but will not support new mission requirements. No growth is possible within the confines of the current facilities. Additional space is required to support the programmed growth of the new mission. The existing 13th ASOS facility was constructed and occupied in 2009. Since completion of the original construction the 13th ASOS mission has been expanded; the unit and its MAJCOM (Air Combat Command) have identified several functional components of this expanded mission that the current facilities cannot properly support. A facility expansion will accommodate the training, SATCOM/Data equipment maintenance, and storage functions that are absent from the existing ASOS facility, as well as associated personnel and administrative functions.</p> <p><b>IMPACT IF NOT PROVIDED:</b> The 13 ASOS will not be able to provide operational war fighter capabilities to the Army as required by their expanded mission set. Adequate facilities will not be available to receive personnel/equipment, perform training, operations and maintenance functions. There are no adequate facilities on the installation.</p> <p><b>ADDITIONAL:</b> This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." A preliminary analysis of reasonable alternatives evaluating status quo, renovation, new construction was accomplished. This analysis indicates there is only one option that will meet operational requirements; new construction. Fort Carson Directorate of Public Works (719) 526-0861. Squadron Operations: 1648 SM = 17,739 SF; Integrated Maintenance Shop: 535 SM = 5759 SF; Base Supply and Equipment Shed: 298 SM = 3208 SF; Vehicle Operations Parking Shed: 864 SM = 9300 SF</p> <p><b>JOINT USE CERTIFICATION:</b> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION FT CARSON COLORADO		4. PROJECT TITLE 13 ASOS EXPANSION	
5. PROGRAM ELEMENT 27418	6. CATEGORY CODE 141-753	7. PROJECT NUMBER /ACC123301	8. PROJECT COST (\$000) 13,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			520
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			19 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
COMMUNICATIONS	3400	18	200
FURNISHINGS, FIXTURES & EQUIP	3400	18	190



1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION USAF ACADEMY U S A F ACADEMY SITE # 1 COLORADO			4. PROJECT TITLE AIR FORCE CYBERWORX		
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  171-853	7. RPSUID/PROJECT NUMBER  3368/XQPZ164001	8. PROJECT COST (\$000)  30,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					22,433
AIR FORCE CYBERWORX		SM	3,068	4,982	( 15,285 )
SPECIAL FOUNDATIONS		SM	1,310	3,059	( 4,007 )
BUILDING ENVELOPE		SM	2,999	898	( 2,693 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 448 )
SUPPORTING FACILITIES					4,188
UTILITIES/CONNECTION FEE (ELECTRIC)		LS			( 1,018 )
SITE IMPROVEMENTS		LS			( 1,194 )
PAVEMENTS		LS			( 1,142 )
COMMUNICATIONS		LS			( 322 )
DEMO		SM	614	834	( 512 )
SUBTOTAL					26,621
CONTINGENCY (5.0%)					1,331
TOTAL CONTRACT COST					27,952
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					1,593
TOTAL REQUEST					29,546
TOTAL REQUEST (ROUNDED)					30,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 4,100 )
10. Description of Proposed Construction: Construct an Air Force Cyberworx for training of cadet candidates utilizing conventional design and construction methods to accommodate the mission of the facility. Project will include administrative support, offices, Innovation Think Tank, air/Unmanned Aerial Vehicle (UAV) operations & connectivity to air/UAV, Conference & Breakout Rooms, Student Lounge, Classrooms, Sensitive Compartmented Information Facility (SCIF), Digital Forensics & Reverse Engineering Lab, Autonomous & Embedded Systems Lab, Cyber Security Lab, Cyber Exploitation Lab, Telecommunications Lab, Industrial Control Systems/Supervisory Control & Data Acquisition Lab, Policy/Strategy/Law Lab, air/UAV Lab & support space requirements. Building site requires line of sight connectivity with Jack's Valley & United States Air Force Academy (USAF) airfield. Perimeter security construction will extend existing fence line and surveillance capabilities, with increased vehicle control capacity to allow partners into the site without transiting through the cadet area. All construction will be accomplished on a 7-foot grid pattern to match the USAFA historic international architectural style. Project will also include all fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION USAF ACADEMY U S A F ACADEMY SITE # 1 COLORADO			4. PROJECT TITLE AIR FORCE CYBERWORX	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  171-853	7. RPSUID/PROJECT NUMBER  3368/XQPZ164001	8. PROJECT COST (\$000)  30,000	
protection requirements per UFC 4-101-01.				
Air Conditioning: 200 Tons				
11. Requirement: 3068 SM Adequate: 52242 SM Substandard: 115057 SM				
PROJECT: Air Force CyberWorx (New Mission)				
REQUIREMENT: A properly sized and configured Air Force CyberWorx is required to support training of cadet candidates, permanent party, other governmental partners and business partners. The goal is to achieve the unity of effort required to prevent malicious, covert attempts to interrupt and compromise the functional capacity of the DoD networks. The process of monitoring, identifying, and countering these attacks will require a collaborative environment within which elements of all cyber activities can be represented, in a collocated manner while executing passive, active, and defensive network operations. This facility will incorporate new technologies and processes that will generate beneficial synergies through integration and collaboration. Through an open work environment that incorporates scalable, reconfigurable work spaces, cyber assets will be able to achieve both actual and virtual collaboration while maintaining their functional discipline.				
CURRENT SITUATION: Air Force CyberWorx is housed on two floors of Fairchild Hall (16,500 SF/1,533 SM) near the library, which is not adequate to support this collaborative research/teaching mission. The current configuration does not allow outside partner interaction, which is critical to the development of this future mission.				
IMPACT IF NOT PROVIDED: Without the proposed collaborative capabilities of the Air Force CyberWorx, DoD's network operations will continue to become increasingly vulnerable to our adversaries and AF warfighting capabilities will be degraded. We will also be unable to take advantage of outside partner interactions to increase the knowledge and overall cyber offense/defense knowledge and capabilities.				
ADDITIONAL: This project will be sited according to the US Air Force Academy Installation Development Plan. Requirements for Category Code 171-853 are not listed in AFMAN 32-1084, Facility Requirements. Criteria not met in AFMAN 32-1084 is met by criteria and scope consistent with industry standards. Costs for this project were validated using UFC 3-701-01 DoD Facilities Pricing Guide. The system owner will retain ownership of the additional utility infrastructure. A Base Civil Engineer: (719)-333-2660. Air Force CyberWorx: 3,068 SM = 33,024 SF, Special Foundations: 1,310 SM = 14,101 SF, Building Envelope: 2,999 SM = 32,281 SF.				
JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION USAF ACADEMY U S A F ACADEMY SITE # 1 COLORADO		4. PROJECT TITLE AIR FORCE CYBERWORX	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 171-853	7. PROJECT NUMBER 3368/XQPZ164001	8. PROJECT COST (\$000) 30,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			30-MAR-17
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2017			15%
* (d) Date 35% Designed			01-DEC-17
(e) Date Design Complete			01-JUN-18
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			1,800
(b) All Other Design Costs			900
(c) Total			2,700
(d) Contract			2,250
(e) In-house			450
(4) Construction Contract Award			18 AUG
(5) Construction Start			18 SEP
(6) Construction Completion			20 SEP
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
EQUIPMENT	3080	2019	4,100

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYMMDD)</b> 20160930				
<b>3. INSTALLATION AND LOCATION</b> EGLIN AIR FORCE BASE FLORIDA				<b>4. COMMAND</b> AIR FORCE MATERIEL COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 0.84				
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>		<b>TOTAL</b>	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED		CIVILIAN
a. AS OF	30-Sep-16	725	2607	3540	0	0	0	496	1020	622	9,010
b. END FY	2022	737	2591	3621	0	0	0	490	1000	602	9,041
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE		453,516									
b. INVENTORY TOTAL AS OF		30-Sep-16									4,447,994
c. AUTHORIZATION NOT YET IN INVENTORY											88,600
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2018)											46,700
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)											102,400
f. REMAINING DEFICIENCY											653,150
g. GRAND TOTAL											5,338,844
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)</b>											
a. CATEGORY											
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>				<b>(3) SCOPE</b>			<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>	
317-315	Long-Range Stand-Off Acquisition Fac				4,587 SM			38,000		(1) START (2) COMPLETE Design/Build	
315-236	F-35A Armament Research Fac Addition (B614)				943 SM			8,700		Design/Build	
<b>TOTAL</b>								<b>46,700</b>			
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022)</b>											
721-313	F-35A Student Dormitory II				7,258 SM			16,800			
722-351	F-35A Tech Trng Dining Facility Addition				1,329 SM			11,000			
171-621	F-35A Integrated Trng Center Academics Bldg				4,461 SM			21,000			
721-312	Dormitories Replace Dorm 19				9,679 SM			44,000			
317-315	Long-Range Stand-Off Acquisition Fac				4,587 SM			9,600			
<b>FUTURE PROJECTS TOTAL</b>								<b>102,400</b>			
<b>R&amp;M UNFUNDED REQUIREMENT (\$M)</b>											
<b>TOTAL</b>								<b>7.3</b>			
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
Eglin is an Air Force Materiel Command base serving as the focal point for all Air Force armaments. Eglin is responsible for the development, acquisition, testing, deployment and sustainment of all air-delivered non-nuclear weapons. The base plans, directs and conducts test and evaluation of U.S. and allied air armament, navigation and guidance systems, and command and control systems.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022)</b>											
a. Air Pollution											
b. Water Pollution											
c. Occupational Safety and Health											
d. Other Environmental											
<b>OUTSTANDING DEFICIENCIES TOTAL</b>								<b>0</b>			

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA		4. PROJECT TITLE F-35A ARMAMENT RESEARCH FACILITY ADDITION (B614)			
5. PROGRAM ELEMENT 27597	6. CATEGORY CODE 315-236	7. RPSUID/PROJECT NUMBER 1695/FTFAL63003	8. PROJECT COST (\$000) 8,700		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					6,368
ARMAMENT RESEARCH FACILITY ADDITION		SM	943	6,621	( 6,243 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 125 )
SUPPORTING FACILITIES					1,220
UTILITIES		LS			( 205 )
PAVEMENTS		LS			( 361 )
SITE IMPROVEMENTS		LS			( 144 )
DEMOLITION		SM	372	161	( 60 )
COMMUNICATIONS		LS			( 450 )
SUBTOTAL					7,588
CONTINGENCY (5.0%)					379
TOTAL CONTRACT COST					7,968
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					454
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					304
TOTAL REQUEST					8,725
TOTAL REQUEST (ROUNDED)					8,700
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 1,005 )
<p>10. Description of Proposed Construction: Construct an addition to building 614 utilizing conventional design and construction methods to accommodate the mission of the facility. The facility will be 2-story with a reinforced concrete foundation, a standing seam metal roof and structural steel frame with split ribbed masonry, concrete or metal ribbed wall panels to match the existing facility. Project will include fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. Project includes demolition of one building (372 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 30 Tons</p>					
<p>11. Requirement: 48715 SM Adequate: 47772 SM Substandard: 0 SM</p> <p><u>PROJECT:</u> F-35A Armament Research Facility Addition, B614 (New Mission)</p> <p><u>REQUIREMENT:</u> The requirement is for a 2-story 943 square meter building attached to building 614. There are three main purposes for this building: 1) office space, 2) storage, and 3) classroom/training room. This project is a new mission requirement in support of the F-35A program. Contractor manning is projected to increase by 30 personnel through the year 2020 in support of the F-35A program. The 513th Electronic Warfare Squadron (EWS) has maximized the number of cubicles</p>					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA			4. PROJECT TITLE F-35A ARMAMENT RESEARCH FACILITY ADDITION (B614)	
5. PROGRAM ELEMENT  27597	6. CATEGORY CODE  315-236	7. RPSUID/PROJECT NUMBER  1695/FTFA163003	8. PROJECT COST (\$000)  8,700	
<p>within all offices of B614 and T614 (modular facility) leaving no room to accommodate additional employees.</p>				
<p><u>CURRENT SITUATION:</u> The 513 EWS develops, tests, and fields mission data for the F-35A program. The 513 EWS is currently located at B614 with a former temporary building attached (T614). Although several renovations were made to the modular addition beginning in 2010, the modular addition to B614 has passed its serviceable life. Additionally, the modular addition to B614 does not meet the organization's current space requirements. B614 is not sufficient to accommodate either current requirements for storage and training, nor future growth of the organization (manning and testing) due to increasing capabilities of the F-35.</p>				
<p><u>IMPACT IF NOT PROVIDED:</u> B614 and the existing modular addition (T614) cannot support existing manning plus 30 additional contractor personnel. The existing facility does not have the capability for the increased storage, test-line usage, training, etc. Limited facility space will impact mission data support to the three Services (USAF, USN, USMC), which could ultimately cause a capability deferment of up to one year for the F-35, Block 4. Forced use of the existing modular addition will cause continued rapid deterioration of the addition.</p>				
<p><u>ADDITIONAL:</u> This project meets applicable criteria/scope specified in AF Manual 32-1084, Facility Requirements. An economic analysis of reasonable alternatives was accomplished comparing status quo, addition (this request) and new construction. This analysis indicated that constructing an addition to building 614 is the most cost effective alternative that meets mission requirements. 96 Air Base Wing Base Civil Engineer: (850) 882-2876. Facility: 943 SM = 10,143 SF.</p>				
<p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA		4. PROJECT TITLE F-35A ARMAMENT RESEARCH FACILITY ADDITION (B614)	
5. PROGRAM ELEMENT 27597	6. CATEGORY CODE 315-236	7. PROJECT NUMBER 1695/FTFA163003	8. PROJECT COST (\$000) 8,700
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			348
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			19 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed			NO
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FFE	3400	2019	700
COMMUNICATIONS EQUIPMENT	3400	2019	305

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA		4. PROJECT TITLE LONG-RANGE STAND-OFF ACQUISITION FACILITY			
5. PROGRAM ELEMENT 64932	6. CATEGORY CODE 317-315	7. RPSUID/PROJECT NUMBER 1695/FTFAL63004	8. PROJECT COST (\$000) 38,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					26,410
LONG-RANGE STAND-OFF FACILITY		SM	4,587	5,645	( 25,892 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 518 )
SUPPORTING FACILITIES					6,382
UTILITIES		LS			( 1,527 )
PAVEMENTS		LS			( 2,684 )
SITE IMPROVEMENTS		LS			( 1,071 )
COMMUNICATIONS		LS			( 1,100 )
SUBTOTAL					32,792
CONTINGENCY (5.0%)					1,640
TOTAL CONTRACT COST					34,431
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					1,963
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					1,312
TOTAL REQUEST					37,706
TOTAL REQUEST (ROUNDED)					38,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 3,150 )
10. Description of Proposed Construction: Construct a sensitive compartmented information facility (SCIF) utilizing conventional design and construction methods to accommodate the mission of the facility. Facility will consist of a concrete foundation, split-faced concrete block over a steel frame and sloped standing seam metal roof. Project will include fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.					
Air Conditioning: 140 Tons					
11. Requirement: 15919 SM Adequate: 0 SM Substandard: 11332 SM					
<u>PROJECT:</u> Long-Range Stand-Off Acquisition Facility (New Mission)					
<u>REQUIREMENT:</u> The Air Force Nuclear Weapons Center, Nuclear Weapons Acquisition Division requires a special access facility to manage two Technology Maturation and Risk Reduction (TMRR) contracts in support of the Long-Range Stand-Off (LRSO) weapons program. The TMRR contracts are expected to be awarded in 2017 and will be the developmental tool for a replacement to the air launched cruise missile. 300 personnel will be assigned to the LRSO program office at Eglin AFB. Adequate administration space (offices and conference rooms) are required for all 300 personnel.					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA			4. PROJECT TITLE LONG-RANGE STAND-OFF ACQUISITION FACILITY	
5. PROGRAM ELEMENT  64932	6. CATEGORY CODE  317-315	7. RPSUID/PROJECT NUMBER  1695/FTFAL63004	8. PROJECT COST (\$000)  38,000	
<p><b>CURRENT SITUATION:</b> The LRSO program currently has 51 military, civilian, and contractor personnel, and the current LRSO facility has room for 95 personnel; sufficient to support a near-term ramp up to TMRR. However, the current facility will not be sufficient to house the 300 personnel required to manage the two required, near-future, competitive TMRR contracts.</p> <p><b>IMPACT IF NOT PROVIDED:</b> Lack of sufficient personnel and facilities to manage the TMRR contracts may jeopardize the scheduled LRSO contract award. Contract award delay may directly impact LRSO initial operational capability. Delaying contract may also impact interface requirements with delivery platforms and the warhead; ultimately negatively impacting the ability of the United States Air Force to provide airborne strategic deterrence.</p> <p><b>ADDITIONAL:</b> This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. An economic analysis of reasonable alternatives evaluating status quo, renovation, facility leasing and new construction was accomplished. This analysis indicated that new construction is the most economically feasible alternative which meets mission requirements. 96th Air Base Wing Base Civil Engineer: (850) 882-2876. Facility: 4,587 SM = 49,374 SF.</p> <p><b>JOINT USE CERTIFICATION:</b> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA		4. PROJECT TITLE LONG-RANGE STAND-OFF ACQUISITION FACILITY	
5. PROGRAM ELEMENT 64932	6. CATEGORY CODE 317-315	7. PROJECT NUMBER 1695/FTFA163004	8. PROJECT COST (\$000) 38,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			1,520
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			20 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE  FURNITURE, FIXTURES AND EQUIP  COMMUNICATIONS EQUIPMENT	PROCURING APPRC  3400  3400	FISCAL YEAR APPROPRIATED OR REQUESTED  2019  2018	COST (\$000)  2,160  990



1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILLAFB SITE # 1 FLORIDA		4. PROJECT TITLE KC135 BEDDOWN OG/MXG HQ		
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 610-243	7. RPSUID/PROJECT NUMBER 2521/NVZR153711	8. PROJECT COST (\$000) 8,100	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				6,039
COMMAND HEADQUARTERS FACILITY	SM	1,351	4,385	( 5,925 )
SUSTAINABILITY AND ENERGY MEASURES	LS			( 114 )
SUPPORTING FACILITIES				987
PAVEMENT	LS			( 467 )
SITE IMPROVEMENTS	LS			( 204 )
UTILITIES	LS			( 316 )
SUBTOTAL				7,026
CONTINGENCY (5.0%)				351
TOTAL CONTRACT COST				7,377
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				420
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				281
TOTAL REQUEST				8,078
TOTAL REQUEST (ROUNDED)				8,100
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				1,100
<p>10. Description of Proposed Construction: Construct a 14,458 square feet /1,351 square meter facility to support OG/MX command staff utilizing conventional design and construction methods to accommodate the mission of the facility. Project includes private offices, open administration space and ancillary space consisting of reinforced concrete foundation and floor slab, structural steel frame, split faced masonry walls, stucco walls, standing seam metal roof, fire detection/suppression, utilities, site improvements, landscaping and all other associated support facilities to provide a complete and useable facility. In addition, special site conditions account for fill required to elevate facility above flood plain. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 70 Tons</p>				
<p>11. Requirement: 1351 SM Adequate: 0 SM Substandard: 0 SM</p> <p><u>PROJECT:</u> KC-135 Beddown Operations Group/Maintenance Group Headquarters (New Mission)</p> <p><u>REQUIREMENT:</u> In order to direct flight operations and plan, brief, and critique combat crews the new unit needs adequately sized and properly configured facilities. Administrative space is required for both operations and maintenance commanders and associated staff to program and conduct mission briefings and other</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILLAFB SITE # 1 FLORIDA		4. PROJECT TITLE KC135 BEDDOWN OG/MXG HQ		
5. PROGRAM ELEMENT  41976	6. CATEGORY CODE  610-243	7. RPSUID/PROJECT NUMBER  2521/NVZR153711	8. PROJECT COST (\$000)  8,100	
<p>related command activities. Squadron operations management support, briefing/debriefing, flight planning, training and testing, flying/ground safety, mobility office, standardization/evaluation, and scheduling all need adequate space for mission execution.</p> <p><u>CURRENT SITUATION:</u> MacDill AFB, located in Tampa, FL, is home to the 6th Air Mobility Wing and the 927th Air Reserve Wing and has been chosen to receive eight (8) additional KC-135 tankers scheduled to be redeployed to MacDill Air Force Base once the new KC-46A refueling tanker begins deployment. This requirement was validated during the Beddown Site Survey conducted 21-25 September 2015 by Air Mobility Command and Air Force Installation and Mission Support Center, Detachment 9 Staff. The current available administration space at MacDill is inadequate and incapable of supporting additional personnel associated with the beddown of aircraft.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Without this project, personnel associated with the beddown will be forced to operate in substandard and space deficient facilities already at capacity in order to meet mission requirements. Adequate facilities are not available to perform the additional essential operations and maintenance command activities. Failure to construct this new facility will adversely impact the beddown/realignment of aircraft. MacDill AFB 6th Air Mobility Wing's ability to support the strategic en-route refueling mission of KC-135 tankers will severely degrade.</p> <p><u>ADDITIONAL:</u> This project meets the scope/criteria specified in Air Force Handbook 32-1084, "Facility Requirements." An economic analysis was being prepared comparing alternatives of new construction, alteration, leasing and status quo operations. New construction was found to be the most cost efficient over the life of the project. Base Civil Engineer: (813) 828-3577. Command Headquarters Facility: 1,351 SM = 14,542 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> Mission requirements, operational considerations, and location are incompatible with use by other components.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION MACDILL AIR FORCE BASE MACDILLAFB SITE # 1 FLORIDA		4. PROJECT TITLE KC135 BEDDOWN OG/MXG HQ	
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 610-243	7. PROJECT NUMBER 2521/NVZR153711	8. PROJECT COST (\$000) 8,100
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			YES
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			281
(4) Construction Contract Award			18 AUG
(5) Construction Start			18 SEP
(6) Construction Completion			20 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE	3400	2019	300
AUDIO/VISUAL	3400	2019	100
C4I REQUIREMENTS	3400	2019	600

<b>1. COMPONENT</b> AIR FORCE			<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>				<b>2. DATE (YYMMDD)</b> 20160930				
<b>3. INSTALLATION AND LOCATION</b> ROBINS AIR FORCE BASE GEORGIA						<b>4. COMMAND</b> AIR FORCE MATERIAL COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.25		
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>TOTAL</b>
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-16	1608	7058	14952	0	13	0	2	2	78	23,713
b. END FY	2019	1566	6978	14853	0	13	0	2	2	78	23,492
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE		8,722									
b. INVENTORY TOTAL AS OF		30-Sep-16									
										1,905,428	
c. AUTHORIZATION NOT YET IN INVENTORY										12,000	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2018)										9,800	
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)										0	
f. REMAINING DEFICIENCY										329,000	
g. GRAND TOTAL										2,256,228	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)</b>											
a. CATEGORY						b. COST			c. DESIGN STATUS		
(1) CODE	(2) PROJECT TITLE				(3) SCOPE			(\$000)		(1) START   (2) COMPLETE	
730-832	Commercial Vehicle Visitor Control Facility				1,324 SM			9,800		Design/Build	
<b>TOTAL</b>								9,800			
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022)</b>											
FUTURE PROJECTS TOTAL											
										0	
<b>R&amp;M UNFUNDED REQUIREMENT (\$M)</b>										<b>TOTAL</b>	
										2.2	
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
Warner Robins Air Logistics Center is responsible for logistics management, support, and depot-level maintenance of systems including F-15, C-130, C-5, C-141, and U-2 aircraft, helicopters, missiles and remotely piloted vehicles; an air base wing; an air control wing; HQ Air Force Reserve Command; an Air Mobility Command air refueling group with KC-135 aircraft; an ACC combat communications group; a special operations flight with EC-137D aircraft; an Air National Guard bomb wing with B-1B aircraft; and an Air Force recruiting group.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022)</b>											
a. Air Pollution											
b. Water Pollution											
c. Occupational Safety and Health											
d. Other Environmental											
<b>OUTSTANDING DEFICIENCIES TOTAL</b>										0	

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION ROBINS AIR FORCE BASE ROBINS AIR FORCE BASE SITE # 1 GEORGIA		4. PROJECT TITLE COMMERCIAL VEHICLE VISITOR CONTROL FACILITY			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 730-832	7. RPSUID/PROJECT NUMBER 3219/UHHZ163000	8. PROJECT COST (\$000) 9,800		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					1,730
OVERHEAD PROTECTION (145-921)		SM	1,250	973	( 1,216 )
VISITOR CONTROL FACILITY (730-832)		SM	74	6,488	( 480 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 34 )
SUPPORTING FACILITIES					6,778
UTILITIES		LS			( 655 )
COMMUNICATIONS		LS			( 200 )
DEMOLITION		SM	2,812	222	( 624 )
SITE IMPROVEMENTS		LS			( 5,299 )
SUBTOTAL					8,509
CONTINGENCY (5.0%)					425
TOTAL CONTRACT COST					8,934
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					509
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					340
TOTAL REQUEST					9,784
TOTAL REQUEST (ROUNDED)					9,800
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 1,514 )
<p>10. Description of Proposed Construction: Construct a commercial vehicle inspection station and vehicle visitor control facility for Robins Air Force Base, utilizing conventional design and construction methods to accommodate the mission of the facility. Project will include reinforced concrete floor slabs/foundations, masonry walls, brick veneer exterior walls, standing seam metal roofs, asphalt pavement, parking area, fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. Demolish Buildings 253, 279 and 602, which totals 2,740 SM. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.</p> <p>Air Conditioning: 3 Tons</p>					
<p>11. Requirement: 1324 SM Adequate: 0 SM Substandard: 2812 SM</p> <p><u>PROJECT:</u> Commercial Vehicle Visitor Control Facility (Current Mission)</p> <p><u>REQUIREMENT:</u> Provide an entry control point, which includes a new commercial vehicle office, visitor waiting facility, commercial vehicle inspection facilities, final denial barriers, security fencing, communications, CCTV, security lighting, sidewalks, utilities, parking, and exit lanes for commercial vehicles to leave the base.</p>					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION ROBINS AIR FORCE BASE ROBINS AIR FORCE BASE SITE # 1 GEORGIA			4. PROJECT TITLE COMMERCIAL VEHICLE VISITOR CONTROL FACILITY	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  730-832	7. RPSUID/PROJECT NUMBER  3219/UHHZ163000	8. PROJECT COST (\$000)  9,800	
<p><b>CURRENT SITUATION:</b> The Commercial Truck Gate at gate 4 is substandard and does not meet Anti-Terrorism (AT) requirements. This gate has been cited with numerous security discrepancies, through Defense Threat Reduction Agency's (DTRA) Joint Service Integrated Vulnerability Assessment (JSIVA) team and local assessments; the discrepancies cannot be corrected in place. Current expansion in place is limited, final denial barriers cannot be set due intersection proximity and occupied buildings. Occupied buildings close to Gate 4 are required to be evacuated during suspect vehicle inspections or other emergencies. In addition, the gate is not a satisfactory location for traffic interfacing with the local community. The inspection area accommodates two to four trucks, which is insufficient for peak time volumes. Vehicles turned away at the inspection point require security forces to escort the vehicle to an exit gate. Lastly, Gate 4 will be closed after new work is completed.</p> <p><b>IMPACT IF NOT PROVIDED:</b> JSIVA write-ups and violations of Anti-terrorism/Force Protection requirements will continue to drive the evacuation of facilities during suspect vehicle inspections. New equipment to increase the reliability, effectiveness, and safety of the inspections cannot be added to enhance the mission. Thus, a lack of proper signaling on the main highway will continue to present potential problems to local traffic safety.</p> <p><b>ADDITIONAL:</b> This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. The economic analysis has been prepared comparing the alternative of new construction, and status quo. Base Civil Engineer: (478) 926-3093. Visitor Control Facility: 74 SM = 796 SF, Overhead Protection: 1250 SM = 13,454 SF.</p> <p><b>JOINT USE CERTIFICATION:</b> Mission requirements, operational considerations, and location are incompatible with use by other components.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE ROBINS AIR FORCE BASE SITE # 1 GEORGIA		4. PROJECT TITLE COMMERCIAL VEHICLE VISITOR CONTROL FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 730-832	7. PROJECT NUMBER 3219/UHHZ163000	8. PROJECT COST (\$000) 9,800
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			392
(4) Construction Contract Award			18 AUG
(5) Construction Start			18 SEP
(6) Construction Completion			20 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
CAMERAS/MONITOR	3400	20	62
TELEPHONE EQUIPMENT	3400	20	12
PORTABLE X-RAY, RADIATION EQ	3400	20	190
BACK SCATTER RADAR EQUIPMENT	3080	20	1,250



<b>1. COMPONENT</b> AIR FORCE		<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>			<b>2. DATE</b>			
<b>3. INSTALLATION AND LOCATION</b> MCCONNELL AIR FORCE BASE, KANSAS			<b>4. PROJECT TITLE:</b> COMBAT ARMS FACILITY					
<b>5. PROGRAM ELEMENT</b> 41976		<b>6. CATEGORY CODE</b> 171-475		<b>7. PROJECT NUMBER</b> PRQE055155		<b>8. PROJECT COST (\$000)</b> 17,500		
<b>9. COST ESTIMATES</b>								
<b>ITEM</b>					<b>U/M</b>	<b>QUANTITY</b>	<b>UNIT COST</b>	<b>COST (\$000)</b>
<b><u>PRIMARY FACILITIES</u></b>								<b>13,444</b>
INDOOR SMALL ARMS RANGE (171-475)					SM	2,386	3,459	(8,253)
COMBAT ARMS TRAINING & MAINTENANCE (171-476)					SM	1,426	3,421	(4,878)
RANGE TARGET REPAIR & STORAGE (171-473)					SM	37	1,314	(49)
SUSTAINABILITY AND ENERGY MEASURES					LS			(264)
<b><u>SUPPORTING FACILITIES</u></b>								<b>1,708</b>
UTILITIES					LS			(334)
SITE IMPROVEMENTS					LS			(281)
PAVEMENTS					LS			(176)
DEMOLITION					SM	2,266	388	(879)
COMMUNICATIONS					LS			(38)
<b>SUBTOTAL</b>								<b>13,152</b>
CONTINGENCY (5%)								(757)
<b>TOTAL CONTRACT COST</b>								<b>13,909</b>
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)								(907)
DESIGN/BUILD – DESIGN COST (4.0% OF SUBTOTAL)								(606)
<b>TOTAL REQUEST</b>								<b>17,422</b>
<b>TOTAL REQUEST (ROUNDED)</b>								<b>17,500</b>
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(773)
<b>10. DESCRIPTION OF PROPOSED CONSTRUCTION:</b>								
<p>Construct a 28-position, 25-meter, fully contained, indoor firing range, combat arms facility and range target facility. Construction will include concrete footings, floor, side walls and roof as well as overhead baffles, bullet trap and a vacuum system for lead dust collection. The project includes utilities, site improvements, pavements, communications infrastructure and other supporting work necessary to make complete and useable facilities. The project demolishes three buildings (2,266 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD anti-terrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 0 Tons</p>								
<b>11. REQUIREMENT: 3,849 SM</b>			<b>ADEQUATE: 0 SM</b>			<b>SUBSTANDARD: 2,266 SM</b>		
<b>PROJECT:</b> Combat Arms Facility (Current Mission)								
<b>REQUIREMENT:</b> The 22nd Security Forces Squadron, Combat Arms section is responsible for providing weapons training for personnel assigned to McConnell AFB. Training provided encompasses a total of 6 different weapon systems. A fully contained range eliminates the Surface Danger Zone (SDZ), corrects environmental problems and mitigates lost training time due to poor weather. The proposed range will accommodate both frangible and lead ammunition. Engineering Technical Letter (ETL) 11-18 mandates full containment and a desired range length at or close to the sight zero for the weapons being trained on.								

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
3. INSTALLATION AND LOCATION TRAVIS AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE KC-46A ADAL PARKING APRON/HYDRANT FUEL SYSTEM	5. PROJECT NUMBER 1023672	
<p><u>CURRENT SITUATION:</u> On several occasions the firing range has been shut down due to deteriorating baffles and other design deficiencies that do not completely trap live rounds during live-fire exercises. Additionally, the existing range does not meet minimum requirements of ETL 11-18 for Surface Danger Zones (SDZ) and Vertical Danger Zones (VDZ). As a result of these issues, a Risk Assessment Code (RAC) 2 was assigned to the range by the 22 Air Refueling Wing Safety Office on 28 Nov 2006. The range has exceeded its useful service life and is undersized for current training demand as existing facilities do not provide adequate classroom space, administration space, or weapons cleaning and maintenance space.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Use of the existing facility will continue to incur safety and environmental problems. Training operations continue to be inefficient and result in numerous interruptions and missed training activities due to environmental and safety concerns. This seriously impacts the required combat training for those personnel that are deployed to overseas locations and are not receiving adequate combat training due to the lack of proper training facilities. There are no other DoD approved firing ranges in close proximity to McConnell AFB.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope outlined in Air Force Manual 32-1084, "Facility Requirements" as well as ETL 11-18, "Small Arms Range Design and Construction." A preliminary analysis of reasonable alternative evaluating status quo, renovation, new construction and community partnering was accomplished. This analysis indicated new construction is the most cost option which is both feasible and meets mission requirements. A formal economic analysis is being prepared. 22 Air Refueling Wing Base Civil Engineer: 316-759-5750. Indoor Small Arms Range: 2,386 SM = 25,682 SF; Combat Arms Training and Maintenance: 1,426 SM = 15,349 SF; Range Target Repair and Storage: 37 SM = 398 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>		

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE																
3. INSTALLATION AND LOCATION TRAVIS AIR FORCE BASE, CALIFORNIA																			
4. PROJECT TITLE KC-46A ADAL PARKING APRON/HYDRANT FUEL SYSTEM		5. PROJECT NUMBER 1023672																	
12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Project to be accomplished by design-build procedures  (2) Basis: (a) Standard or Definitive Design – YES (b) Where Design Was Most Recently Used – Buckley (3) All Other Design Costs \$700  (4) Construction Contract Award 18 AUG (5) Construction Start 18 SEP (6) Construction Completion 20 MAR  b. Equipment associated with this project provided from other appropriations:  <table> <thead> <tr> <th>EQUIPMENT NOMENCLATURE</th> <th>PROCURING APPROPRIATION</th> <th>FISCAL YEAR APPROPRIATED OR REQUESTED</th> <th>COST (\$000)</th> </tr> </thead> <tbody> <tr> <td>COMMUNICATIONS EQUIPMENT</td> <td>3400</td> <td>2019</td> <td>100</td> </tr> <tr> <td>FURNITURE, FIXTURES, &amp; EQUIPMENT</td> <td>3400</td> <td>2019</td> <td>408</td> </tr> <tr> <td>WEAPONS SIMULATOR</td> <td>3080</td> <td>2019</td> <td>265</td> </tr> </tbody> </table>				EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)	COMMUNICATIONS EQUIPMENT	3400	2019	100	FURNITURE, FIXTURES, & EQUIPMENT	3400	2019	408	WEAPONS SIMULATOR	3080	2019	265
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)																
COMMUNICATIONS EQUIPMENT	3400	2019	100																
FURNITURE, FIXTURES, & EQUIPMENT	3400	2019	408																
WEAPONS SIMULATOR	3080	2019	265																

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYMMDD)</b> 20160930				
<b>3. INSTALLATION AND LOCATION</b> JOINT BASE ANDREWS MARYLAND					<b>4. COMMAND</b> AIR FORCE DISTRICT OF WASHINGTON			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.01			
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>TOTAL</b>
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-Sep-16		445	1991	766	0	448	0	2078	1859	0	7,587
b. END FY 2022		440	2016	757	0	448	0	2078	1859	0	7,598
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE		7,770									
b. INVENTORY TOTAL AS OF 30-Sep-16		3,165,364									
c. AUTHORIZATION NOT YET IN INVENTORY		43,000									
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2018)		271,500									
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)		37,000									
f. REMAINING DEFICIENCY		215,000									
g. GRAND TOTAL		3,731,864									
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)</b>											
a. CATEGORY											
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>				<b>(3) SCOPE</b>			<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>	
911-146	PAR Land Acquisition				45 HA			17,500		(1) START (2) COMPLETE	
211-111	Presidential Aircraft Recap Complex				111,280 SM			254,000		07/16 09/17	
<b>TOTAL</b>								271,500			
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022)</b>											
116-662 PAR Relocate Haz Cargo Pad and EOD Range		35,688 SM			37,000						
<b>FUTURE PROJECTS TOTAL</b>								37,000			
<b>R&amp;M UNFUNDED REQUIREMENT (\$M)</b>								<b>TOTAL</b>		25.6	
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
Andrews Air Force base provides contingency response capability critical to National Security to include emergency reaction rotary-wing airlift for the national capital region, combat-ready Airmen to Air and Space Expeditionary Forces, and a secure installation and robust infrastructure to support base organizations.											
<b>11.</b>											
a. Air Pollution											
b. Water Pollution											
c. Occupational Safety and Health											
d. Other Environmental											
<b>OUTSTANDING DEFICIENCIES TOTAL</b>								0			

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION JOINT BASE ANDREWS-NAVAL AIR FACILITY WASHINGTON ANDREWS SITE # 1 MARYLAND			4. PROJECT TITLE PAR LAND ACQUISITION		
5. PROGRAM ELEMENT 41319	6. CATEGORY CODE 911-146	7. RPSUID/PROJECT NUMBER 1377/AJXF163002A	8. PROJECT COST (\$000) 17,500		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					15,930
LAND ACQUISITION (911-146)		LS			( 9,401 )
LAND EASEMENT (921-177)		LS			( 6,529 )
SUPPORTING FACILITIES					878
SECURITY FENCE		LS			( 272 )
CLEAR AND GRUB		LS			( 356 )
LAND SURVEYS AND TITLE SEARCH		LS			( 250 )
SUBTOTAL					16,808
CONTINGENCY (2.0%)					336
TOTAL CONTRACT COST					17,144
SUPERVISION, INSPECTION AND OVERHEAD (2.0%)					343
TOTAL REQUEST					17,487
TOTAL REQUEST (ROUNDED)					17,500
<p>10. Description of Proposed Construction: Purchase 18.58 hectare land parcel and obtain restrictive use easement rights to an additional 26.75 hectare adjacent to the Munitions Storage Area (MSA) for the purposes of constructing a new Hazardous Cargo Pad (HCP) and EOD Proficiency Range located on the south east boundary of Joint Base Andrews (JBA). The land to be procured is on the Andrews Industrial Park. Local materials and construction techniques shall be used where cost effective. Work includes: purchase land, obtain easement rights, erect chain-link security perimeter fence on the new property line, clear site, remove existing trees and shrubs as necessary to allow for appropriate security measures. This is a companion project to AJFX163002, Relocate Hazardous Cargo Pad &amp; EOD Proficiency Range. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. Land acquisition is to be accomplished in accordance with DOD Instruction 4165.71, Real Property Acquisition.</p> <p>Air Conditioning: 0 Tons</p>					
<p>11. Requirement: 45 HA Adequate: 0 HA Substandard: 0 HA</p> <p>PROJECT: Land Acquisition/Easement for HCP and EOD Proficiency Range (New Mission)</p> <p>REQUIREMENT: The Secretary of the Air Force approved basing the Presidential Aircraft Recapitalization (PAR) at JBA, MD pending National Environmental Policy Act analysis. As a direct result of this program, the existing HCP at JBA will be displaced to the southeast sector of the base to allow construction of the new PAR Complex. To meet airfield safety clearance criteria, the HCP needs to be built outside the edge of the Approach-Departure Clearance Surface (AADCS) as specified in UFC 3-260-01, Figure 3-17, and must meet explosive criteria (a minimum of 1250</p>					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT BASE ANDREWS-NAVAL AIR FACILITY WASHINGTON ANDREWS SITE # 1 MARYLAND			4. PROJECT TITLE PAR LAND ACQUISITION	
5. PROGRAM ELEMENT  41319	6. CATEGORY CODE  911-146	7. RPSUID/PROJECT NUMBER  1377/AJXF163002A	8. PROJECT COST (\$000)  17,500	
<p>LF/381 M inhabited building distance) and base perimeter security requirements (AFI 31-101, para 5.4.2.1). The selected site will also require a 750 LF/228 M minimum separation to public traffic thorough-fares from the HCP as required by AFMAN 91-201, Explosives Safety Standards and DoDM 6055.09-M, Ammunitions and Explosives Safety Standards.</p> <p><b>CURRENT SITUATION:</b> The current HCP supports a number of high visibility missions that serve and transit through JBA and therefore cannot be eliminated nor relocated to another installation. This includes support for a required aerial port of debarkation/embarcation. The PAR program will displace the current HCP, causing its relocation. Five alternative locations on JBA were considered and eliminated because of the munitions safety criteria impact to adjacent facilities. The current HCP will be relocated on the south east side of the airfield. The south east option was selected as the most viable location and requires land just outside the base perimeter to support continuous operations while meeting stringent airfield and explosive safety criteria. Additionally, it requires a portion of the connecting taxiway and the pad itself to be constructed outside base property in an area currently designated as an Industrial Park. This off-base site is the best suited to meet the distance requirement and is the only feasible location capable of meeting the JBA hazardous cargo movement mission requirements without the need of airfield criteria waivers or significant additional expense (estimated in excess of \$56.9M). The HCP will be relocated with an appropriate standoff distance and will be rated for up to 30,000lbs, 1.1 munitions. The proposed action eliminates a number of munitions and airfield criteria waivers currently in place. In addition, the EOD Proficiency Range will be co-located with the HCP and the MSA.</p> <p><b>IMPACT IF NOT PROVIDED:</b> The PAR Complex will eliminate use of the current HCP. If this land is not acquired and a HCP not constructed, the interim, backup HCP location located on Taxiway Charlie will be the only site available. Severe restrictive conditions for the use of the Taxiway Charlie location are as follows: time of use is limited, no parking beyond the time necessary to load/unload munitions, and use of the East Runway is restricted to alert launches by the Aerospace Control Alert (ACA) and the 459 ARW. In addition, EOD training would be accomplished at an off-base location at a cost of \$552K per year.</p> <p><b>ADDITIONAL:</b> This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." An analysis of reasonable alternatives (status quo or new construction) was accomplished. This analysis indicated that new construction is the only option that meets mission requirements.</p> <p>11th Wing Base Civil Engineer: 301-981-7281. PAR Land Acquisition/Easement: 45.33 HA = 112.01 Acres.</p> <p><b>HISTORY OF BASE BOUNDARY:</b> N/A</p> <p><b>LONG TERM REAL ESTATE:</b> Land acquisition estimated costs are based on an Air Force real estate survey of comparable land parcels to obtain the most current market values.</p> <p><b>JOINT USE CERTIFICATION:</b> This facility can be used by other components on an as available basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION JOINT BASE ANDREWS-NAVAL AIR FACILITY WASHINGTON ANDREWS SITE # 1 MARYLAND		4. PROJECT TITLE PAR LAND ACQUISITION	
5. PROGRAM ELEMENT 41319	6. CATEGORY CODE 911-146	7. PROJECT NUMBER 1377/AJXF163002A	8. PROJECT COST (\$000) 17,500
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			01-FEB-18
(b) Parametric Cost Estimates used to develop costs			
(c) Percent Complete as of 01 JAN 2017			
(d) Date 35% Designed			01-FEB-18
(e) Date Design Complete			01-FEB-18
(f) Energy Study/Life-Cycle analysis was/will be performed			NO
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			0
(b) All Other Design Costs			0
(c) Total			0
(d) Contract			0
(e) In-house			0
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 FEB
(6) Construction Completion			18 FEB
b. Equipment associated with this project provided from other appropriations: N/A			

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION JOINT BASE ANDREWS-NAVAL AIR FACILITY WASHINGTON ANDREWS SITE # 1 MARYLAND			4. PROJECT TITLE PRESIDENTIAL AIRCRAFT RECAPITALIZATION COMPLEX		
5. PROGRAM ELEMENT 41319	6. CATEGORY CODE 211-111	7. RPSUID/PROJECT NUMBER 1377/AJXF173021	8. PROJECT COST (\$000) 254,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					161,444
LARGE AIRCRAFT HANGAR (211-111)		SM	21,328	4,797	( 102,316 )
ADMINISTRATIVE OFFICE SPACE (610-243)		SM	5,946	3,442	( 20,465 )
WAREHOUSE (COMBS) (442-758)		SM	7,276	2,206	( 16,048 )
ENTRY CONTROL FACILITY (730-837)		SM	387	6,577	( 2,545 )
TAXIWAYS (112-211)		SM	20,485	249	( 5,103 )
AIRCRAFT APRON (113-321)		SM	51,282	230	( 11,801 )
SUSTAINABILITY/ENERGY MEASURES		LS			( 3,165 )
SUPPORTING FACILITIES					67,430
HAZMAT STORAGE BLDG		LS			( 774 )
FLAMMABLE STORAGE BLDG		LS			( 160 )
COVERED AGE STORAGE		LS			( 955 )
UNCOVERED AGE YARD		LS			( 32 )
UTILITIES		LS			( 18,474 )
PAVEMENTS		LS			( 3,077 )
SITE IMPROVEMENTS		LS			( 19,250 )
AT/FP SECURITY INFRASTRUCTURE		LS			( 7,266 )
WETLAND/STREAM MITIGATION		LS			( 1,254 )
TYPE III AIRCRAFT REFUELING SYSTEM		LS			( 10,051 )
FUEL RECEIPT TRANSFER LINE		LS			( 1,067 )
GOLF COURSE MITIGATION		LS			( 500 )
PRIVATIZED UTILITY CONNECTION FEE		LS			( 1,195 )
EMERGENCY GENERATORS AND BACK UP POWER		LS			( 3,375 )
SUBTOTAL					228,874
CONTINGENCY (5.0%)					11,444
TOTAL CONTRACT COST					240,318
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					13,698
TOTAL REQUEST					254,016
TOTAL REQUEST (ROUNDED)					254,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 51,100 )
10. Description of Proposed Construction: Construct Presidential Aircraft Recapitalization (PAR) complex utilizing economical design and construction methods to accommodate the Presidential Airlift Group (PAG) mission. The complex will consist of an appropriately sized hangar to house two Boeing 747-8 aircraft, aircraft access taxiway/parking apron and associated airfield lighting systems including connections and necessary modifications to existing infrastructure, engine run-up pads with blast deflectors, and type III hydrant refueling system					

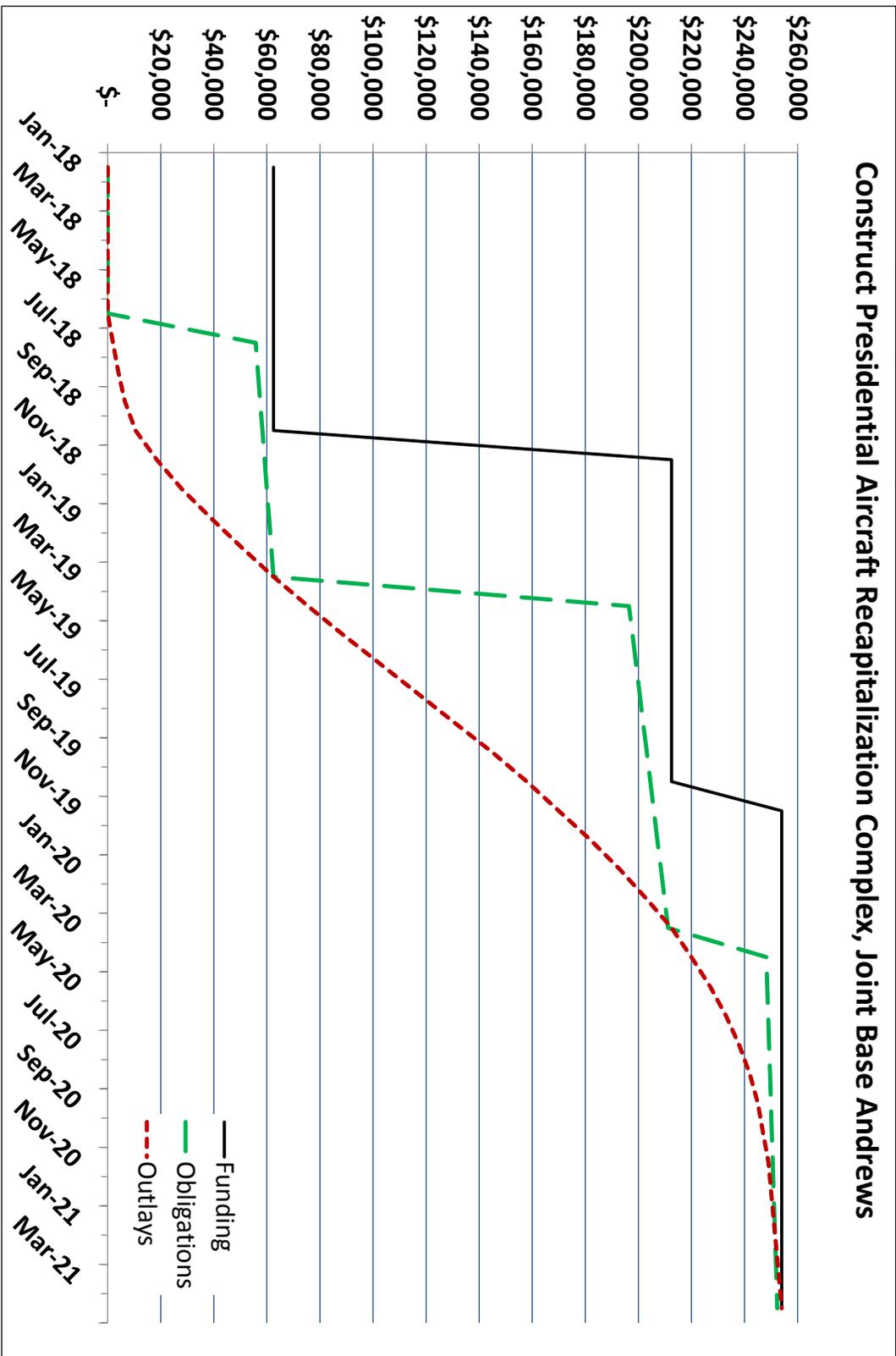
1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT BASE ANDREWS-NAVAL AIR FACILITY WASHINGTON ANDREWS SITE # 1 MARYLAND			4. PROJECT TITLE PRESIDENTIAL AIRCRAFT RECAPITALIZATION COMPLEX	
5. PROGRAM ELEMENT  41319	6. CATEGORY CODE  211-111	7. RPSUID/PROJECT NUMBER  1377/AJXF173021	8. PROJECT COST (\$000)  254,000	
<p>with secure operational fuel storage tanks. Dual bridge crane telescopic maintenance platforms will be included in one hangar bay. Typical facility construction materials will include concrete foundations, steel frame structure with concrete masonry unit veneer and standing seam metal roof. Typical airfield pavement construction materials will consist of concrete taxiway/apron pavements and asphalt shoulders. The PAR complex will also include mission driven security features with entry control, site preparation, wetland/stream mitigation, vehicle parking lot, landscaping, storm water management, electrical, communications, water and sewer utilities and connection fees, emergency generators with fuel tanks and automatic transfer switches, intrusion detection, fire detection &amp; suppression systems, mitigation of project impact to base golf course and other items as required to make complete and useable facilities. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 392 Tons</p>				
<p>11. Requirement: 34937 SM Adequate: 0 SM Substandard: 17238 SM</p> <p>PROJECT: Presidential Aircraft Recapitalization (PAR) Complex. (New Mission)</p> <p>REQUIREMENT: The current Presidential Aircraft, VC-25A, will reach the end of its life cycle by 2020 and requires replacement. The Boeing 747-8 was chosen to replace the VC-25A. An adequately sized and configured PAR complex is required to support the beddown of the new Boeing 747-8 aircraft. The two-bay hangar must support efficient, safe and effective maintenance operations and provide adequate on-site aircraft maintenance and equipment storage areas to include provisions for dual bridge crane telescopic maintenance platforms in one hangar bay. The PAG requires appropriate mission planning, control, operations and administrative space, space for a Contractor Operated and Maintained Base Supply (COMBS) operations and warehouse, HAZMAT storage, flammable storage, and both covered and uncovered Aerospace Ground Equipment (AGE) storage. Due to the critical mission, security requirements and complex nature of the facilities; consideration for Intelligence Community Directive (ICD) 705 compliance, enhanced commissioning, post construction award services and security escorts are required for this project.</p> <p>CURRENT SITUATION: The 747-8 size and weight exceed the capabilities of the existing VC-25A hangar. It is important to note the wingspan of the 747-8 is 225 feet while the wingspan of the currently-used VC-25A is 196 feet. Additionally, the PAG has grown significantly since its current facilities were constructed. This growth has led to office space, equipment, spare parts storage, flight kitchen storage, and fitness area/locker room space expansion into the current hangar floor space limiting vehicle movement around the aircraft for maintenance. There are no other hangars or facilities on JB Andrews capable of meeting the new Presidential Aircraft requirements.</p> <p>IMPACT IF NOT PROVIDED: If this project is not funded the new Presidential Aircraft cannot be maintained or parked in a mission enabling securable environment at JB Andrews. The effort and cost to provide constant security for these PL-1</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT BASE ANDREWS-NAVAL AIR FACILITY WASHINGTON ANDREWS SITE # 1 MARYLAND			4. PROJECT TITLE PRESIDENTIAL AIRCRAFT RECAPITALIZATION COMPLEX	
5. PROGRAM ELEMENT  41319	6. CATEGORY CODE  211-111	7. RPSUID/PROJECT NUMBER  1377/AJXF173021	8. PROJECT COST (\$000)  254,000	
<p>assets will be beyond existing capabilities and manpower of the 11th Wing. Further, lack of proper facilities would negatively impact attaining Initial Operating Capability and /or Full Operating Capability for the new mission system. VC-25A service life extension will result in unacceptable risk to the PAG mission due to the advanced age of the existing aircraft and rising operational &amp; maintenance costs for the aircraft, current hangar and PAG mission support facilities.</p> <p>ADDITIONAL: This project meets the scope/criteria specified in Air Force Manual 32-1084, "Facility Requirements." An economic analysis of reasonable alternatives for accomplishing the project evaluating status quo, renovation, upgrade/removal and new construction was conducted. This analysis indicated that new construction is the only option that can adequately meet mission requirements. Flood mitigation measures will be incorporated in the project when mission needs require constructing within the 100 year floodplain. Future design efforts will determine if flood mitigation is necessary. 11th Wing Base Civil Engineer: 301-981-7281. Large Aircraft Hangar: 21,328 SM = 229,573 SF; Administrative Office Space: 5946 SM = 64,002 SF; Warehouse: 7276 SM = 78,318 SF; Entry Control Facility: 387 SM = 4166 SF; Taxiways: 20,485 SM = 220,499 SF; Aircraft Apron: 51,282 SM = 551,995 SF.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION JOINT BASE ANDREWS-NAVAL AIR FACILITY WASHINGTON ANDREWS SITE # 1 MARYLAND		4. PROJECT TITLE PRESIDENTIAL AIRCRAFT RECAPITALIZATION COMPLEX	
5. PROGRAM ELEMENT 41319	6. CATEGORY CODE 211-111	7. PROJECT NUMBER 1377/AJXF173021	8. PROJECT COST (\$000) 254,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			01-JUL-16
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2017			15%
* (d) Date 35% Designed			01-MAR-17
(e) Date Design Complete			01-SEP-17
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			15,240
(b) All Other Design Costs			7,620
(c) Total			22,860
(d) Contract			19,050
(e) In-house			3,810
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			20 MAR
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
SECURITY EQUIPMENT/SYSTEMS	3080	2020	14,800
WAREHOUSE EQUIPMENT	3080	2019	10,000
PERSONNEL LIFT SYSTEM	3080	2019	7,000
COMMUNICATIONS EQUIPMENT	3080	2020	4,300
FURNITURE FIXTURES AND EQMT	3400	2021	2,000
AUDIOVISUAL SYSTEMS	3080	2020	4,000
OTHER PROCUREMENT	3080	2020	9,000

**Attachment: Project Spending Plan**

**Construct Presidential Aircraft Recapitalization Complex, Joint Base Andrews**





1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE VANDENBERG GATE COMPLEX		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 730-832	7. RPSUID/PROJECT NUMBER 2487/MXRD083000	8. PROJECT COST (\$000) 11,400	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				2,297
VISITOR CENTER (730-832)	SM	187	5,209	( 974 )
GATEHOUSE / ID CHECK (730-839)	SM	52	4,315	( 224 )
COMMERCIAL VEH INPSECTION FAC (730-839)	SM	164	4,315	( 708 )
POV INSPECTION AREA (730-839)	SM	73	4,437	( 324 )
OVERWATCH (730-839)	SM	5	4,315	( 22 )
SUSTAINABILITY AND ENERGY MEASURES	LS			( 45 )
SUPPORTING FACILITIES				7,623
UTILITIES	LS			( 1,600 )
SITE IMPROVEMENTS	LS			( 1,040 )
PAVEMENTS	LS			( 3,150 )
COMMUNICATIONS	LS			( 560 )
DEMOLITION	SM	29	784	( 23 )
PASSIVE SECURITY MEASURES	LS			( 750 )
EMERGENCY GENERATOR / TRANSFER SWITCH	LS			( 500 )
SUBTOTAL				9,919
CONTINGENCY (5.0%)				496
TOTAL CONTRACT COST				10,415
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				594
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				397
TOTAL REQUEST				11,406
TOTAL REQUEST (ROUNDED)				11,400
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				( 83 )
<p>10. Description of Proposed Construction: Construct a main entrance gate complex including a visitor center, gatehouse with canopy and ID check stations, commercial vehicle inspection facility, privately owned vehicle (POV) inspection facility, and an overwatch facility at Hanscom Air Force Base. Facility construction will consist of reinforced concrete foundations, structural steel frames and split faced block veneer as well as standing seam metal roofs. The project will include all necessary utilities, site improvements, pavements, communications infrastructure, passive security infrastructure, an emergency backup generator with auto transfer switch and all other supporting necessary to make complete and useable facilities. The project will demolish two facilities (29 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Minimum Antiterrorism Standards for Buildings requirements per UFC 4-010-01.</p> <p>Air Conditioning: 3 Tons</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS			4. PROJECT TITLE VANDENBERG GATE COMPLEX	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  730-832	7. RPSUID/PROJECT NUMBER  2487/MXRD083000	8. PROJECT COST (\$000)  11,400	
<p>11. Requirement: 521 SM    Adequate: 40 SM    Substandard: 29 SM  <u>PROJECT:</u> Vandenberg Gate Complex (Current Mission)  <u>REQUIREMENT:</u> Hanscom Air Force Base requires an antiterrorism/force protection (AT/FP) compliant gate complex to ensure the safety of base personnel as well as security forces personnel who operate the gate. The project would provide a new entry control facility to include a new visitor's center, gatehouse with canopy, commercial vehicle gatehouse, covered commercial vehicle inspection facility, and covered POV inspection area. The approach road to the base would be demolished and realigned to include striping, sidewalks, utilities, security bollards, drainage structures, manholes, landscaping, signage, vehicle barriers, under vehicle lighting for searches, emergency generator, fencing, and communications infrastructure. This project was validated as part of the HQ AFMC Vulnerability Study, Sep 1999 and at the Hanscom AFB Force Protection Revalidation, June 2001 and annual base level Force Protection Working Group, since Oct 2001.  <u>CURRENT SITUATION:</u> The existing Vandenberg Gate operates as both a commercial vehicle gate as well as a POV gate; however it does not comply with current AT/FP standards. The existing roadway geometry allows undesirable approach speeds to the Entry Control Facility. The current layout does not allow for separation of POVs from commercial delivery vehicles, which causes traffic to back-up towards Route 2A, a major local thoroughfare, while trucks are waiting to be searched. The on-base POV/truck search area is a makeshift inspection area blocked off by cones and concrete barriers. This configuration impedes traffic flow, puts inspection personnel in danger being close to traffic, and forces vehicles to improperly navigate the existing road system. The visitor's center is small and forces many visitors queuing outside the entry door. In addition, there is no vehicle rejection before coming onto base.  Existing vehicular access gates to Hanscom AFB provide nominal security with steel gates with temporary water-filled barriers and armed guards. The Child Development Center (CDC), the Clinic, and the Air Force Life Cycle Management Center (AFLCMC) complex are all within very close proximity to the gate and search area with no additional protection.  <u>IMPACT IF NOT PROVIDED:</u> The mission of the Hanscom AFB would continue to be severely impacted because this gate would remain out of compliance, increasing the potential for a security incident. If not corrected, the gate will continue to operate with workarounds out of compliance with ATFP standards, which poses significant risk to the base populace.  <u>ADDITIONAL:</u> This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." An economic analysis evaluating status quo, construction of a new inspection facility only, construction of a new gate complex (this request) and relocation of the base boundary was accomplished. This analysis shows construction of a new gate complex as the most cost effective alternative which meets mission requirements. Base Civil Engineer: 781-225-2999. Visitor Center: 187 SM = 2013 SF; Gatehouse / ID Check: 52 SM = 560 SF; Commercial Vehicle Inspection Facility: 164 SM = 1765 SF; POV Inspection Area: 73 SM = 786 SF; Overwatch: 5 SM = 54 SF. Project was Authorized in Fiscal Year 2017.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE VANDENBERG GATE COMPLEX	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  730-832	7. RPSUID/PROJECT NUMBER  2487/MXRD083000	8. PROJECT COST (\$000)  11,400
<p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE VANDENBERG GATE COMPLEX	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 730-832	7. PROJECT NUMBER 2487/MXRD083000	8. PROJECT COST (\$000) 11,400
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			456
(4) Construction Contract Award			18 AUG
(5) Construction Start			18 SEP
(6) Construction Completion			20 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE, FIXTURES AND EQUIP	3400	2018	20
CLOSED CAPTION TV EQUIPMENT	3400	2018	33
COMMUNICATIONS EQUIPMENT	3400	2018	30

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20160930				
<b>3. INSTALLATION AND LOCATION</b> NELLIS AIR FORCE BASE NEVADA				<b>4. COMMAND</b> AIR COMBAT COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.25				
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>TOTAL</b>
		<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF	30-Sep-16	1219	5741	1184	45	11	0	79	125	193	<b>8,597</b>
b. END FY	2019	1241	5946	1012	45	11	0	79	125	193	<b>8,652</b>
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE		14,160									
b. INVENTORY TOTAL AS OF		30-Sep-16									
											5,487,841
c. AUTHORIZATION NOT YET IN INVENTORY											75,400
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2018)											61,000
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)											3,800
f. REMAINING DEFICIENCY											20,000
g. GRAND TOTAL											<b>5,648,041</b>
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)</b>											
a. CATEGORY											
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>				<b>(3) SCOPE</b>			<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>	
										(1) START (2) COMPLETE	
172-212	Virtual Warfare Center Operations Facility				5,574 SM			38,000		Design/Build	
141-753	RED FLAG 5th Gen Facility Addition				3,939 SM			23,000		Design/Build	
<b>TOTAL</b>								<b>61,000</b>			
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022)</b>											
172-212 CRH Simulator					556 SM			3,800			
<b>FUTURE PROJECTS TOTAL</b>								<b>3,800</b>			
<b>R&amp;M UNFUNDED REQUIREMENT (\$M)</b>											
<b>TOTAL</b>								<b>10.6</b>			
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
USAF Warfare Center manages advanced pilot training, operation, testing, and tactics development in air, space, and cyberspace. Its named unit, Nevada Test & Training Range (NTR), oversees the 15,000 sq. mile Nevada Test and Training Range Complex that includes an emergency airfield. 57th Wing, A-10A, F-15C/E, F-16, F-22A, F-35A, HH-60G. 57th Wing missions include Red Flag exercises (414th Combat Training Sq.); graduate level pilot training (USAF Weapons School); support for Army exercises; training for international personnel in joint firepower procedures and techniques (57th Operations Gp.); and USAF Air Demonstration Squadron. The 53rd Wing serves as focal point for combat air forces in electronic warfare, armament and avionics, chemical defense, reconnaissance, and aircrew training devices, and operational testing and evaluation of proposed new equipment and systems. 505th Command and Control Wing builds the predominant air and space command and control ability for combined joint warfighters through training, testing, exercising, and experimentation.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022)</b>											
a. Air Pollution											
b. Water Pollution											
c. Occupational Safety and Health											
d. Other Environmental											
<b>OUTSTANDING DEFICIENCIES TOTAL</b>											<b>0</b>

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA		4. PROJECT TITLE RED FLAG 5TH GEN FACILITY ADDITION			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-753	7. RPSUID/PROJECT NUMBER 3056/RKMF063004	8. PROJECT COST (\$000) 23,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					15,571
RED FLAG FACILITY ADDITION		SM	3,939	3,876	( 15,266 )
SUSTAINABILITY & ENERGY MEASURES		LS			( 305 )
SUPPORTING FACILITIES					4,468
UTILITIES		LS			( 928 )
SITE IMPROVEMENTS		LS			( 264 )
PAVEMENTS		LS			( 1,588 )
COMMUNICATIONS SUPPORT		LS			( 1,321 )
DEMOLITION		SM	700	524	( 367 )
SUBTOTAL					20,039
CONTINGENCY (5.0%)					1,002
TOTAL CONTRACT COST					21,041
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					1,199
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					802
TOTAL REQUEST					23,042
TOTAL REQUEST (ROUNDED)					23,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 600 )
<p>10. Description of Proposed Construction: Construct a Red Flag (RF) 5th Gen Facility addition utilizing conventional design and construction methods to accommodate the mission of the facility. The project will include reinforced concrete foundation, floor slab, structural steel frames, split-face masonry unit walls, single-ply roofing system with parapet, sensitive compartmentalized information facilities (SCIF), special access program facilities (SAPF), fire detection and protection systems, utilities, communication support, pavements and all other necessary support to ensure a complete and usable facility. Building addition work includes minor alteration work and demolition (700 SM) to the existing building and entry vestibule to accept the building addition. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 140 Tons</p>					
<p>11. Requirement: 10733 SM Adequate: 6794 SM Substandard: 0 SM</p> <p><b>PROJECT:</b> Red Flag 5th Gen Facility Addition (New Mission)</p> <p><b>REQUIREMENT:</b> RF requires a properly sized and configured facility to execute RF training operations at Nellis AFB. Critical functions of RF include: command; exercise management; mission briefing, execution, supervision and debriefing to 2900-4330 deployed personnel per exercise; classified and unclassified mission</p>					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA		4. PROJECT TITLE RED FLAG 5TH GEN FACILITY ADDITION		
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  141-753	7. RPSUID/PROJECT NUMBER  3056/RKMF063004	8. PROJECT COST (\$000)  23,000	
<p>planning; command and control of US and Allied forces; intelligence collection management and dissemination; deployed unit flight operations; maintenance support for 80-120 aircraft (4th and 5th generation fighters, bombers, tankers, airlift, rotary wing, etc.); classified and unclassified network control; mission and threat analysis; medical support to deployed forces (i.e. flight surgeon); combat search and rescue (CSAR); aircrew life support; audio-visual support to deployed personnel and visiting dignitaries (congressional and executive branch staff members, foreign dignitaries and high-level members of DOD); equipment repair and maintenance audio-visual, computer, etc.); security; and data storage. RF must support the planning, deployment and execution of four RF exercises (each deployment is equivalent to a wing), two Air Force Weapons School integration phase exercises and one classified live-fly exercise annually executed on the Nevada Test and Training Ranges. RF also must have the ability to conduct missions on at least three geographically separated training ranges simultaneously. RF also supports the Combat Air Forces? weapons and tactics conference and tactics review board, several classified Federal Bureau of Investigation conferences, Schriever Wargame exercises and Cyber Flag exercises annually.</p> <p><u>CURRENT SITUATION:</u> The RF building (Building 201) was constructed in 1971. The current 414 CTS RF building configuration dates to 1983 and is too small to host expanding mission requirements, resulting in severe crowding, overtaxed environmental control systems, long lines for building entry, and the geographical separation of the unit (maintenance, flight surgeon, CSAR and aircrew life support). During exercises every unit room is utilized, leaving no capability to expand training for US, joint and coalition 5th Generation aircraft or other DOD agencies and new weapons systems without deleting current participants. Additionally, with new missions added to the exercise since 2012, thousands of non-flying space and cyber participants routinely over-tax the current infrastructure. Since aligning RF with Aerospace Expeditionary Forces (AEF), the number of units and personnel participating in each flag has increased by 15%. The addition of highly classified programs to RFs brings more deployed personnel into the building, requires the creation of large SCIFs and SAPFs) and creates more space demands due to security requirements. Currently, secured space has been created by converting unclassified unit rooms and debriefing space into SCIFs and SAPFs and crowding deployed and permanent party personnel into less area. Crowding is especially severe during flags with coalition participants since 16,000 sq ft of the building (i.e. the SCIF) cannot be used during these flags. Inclusion of classified programs into RF requires a large SCIF auditorium, which does not exist. The unclassified auditorium seats only 396 personnel, and during in-briefing days, personnel overflow into all auditoriums including other buildings, leaving many personnel standing during these briefings. Limited flight briefing rooms do not provide enough space for aircrew to brief as required by AFI 11-202 with other individuals occupying the same room conducting other distractive and unrelated work.</p> <p><u>IMPACT IF NOT PROVIDED:</u> RF will struggle to provide the demanding 5th Gen simulated combat training and the valuable face-to-face planning needed by Combat Air Forces to be effective in the future. RF will be unable to expand to increase</p>				

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3. INSTALLATION, SITE AND LOCATION NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA			4. PROJECT TITLE RED FLAG 5TH GEN FACILITY ADDITION	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  141-753	7. RPSUID/PROJECT NUMBER  3056/RKMF063004	8. PROJECT COST (\$000)  23,000	
<p>joint, coalition, future mission expansion space, cyber or expansion of Combined Air Operations Center, which require highly classified mission areas. Scarce funding resources will continue to be poured into the building infrastructure in the vain effort to keep working conditions adequate. The RF concept has been validated by war-time conflicts since as early as 1975 and without adequate RF facilities, severe limits will be placed on its mission effectiveness and on the entire combat air force in future conflicts.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide", Air Force Manual 32-1084, "Facility Requirements" and the weapon system Facility Requirement Plan. An economic analysis of reasonable options for accomplishing this project (status quo, renovations, and new construction) was accomplished and indicates there is only one option that will meet operational requirements, new construction. Base Civil Engineer: (702) 652-4833. RED FLAG Facility Addition: 3,939 SM = 42,400 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA		4. PROJECT TITLE RED FLAG 5TH GEN FACILITY ADDITION	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-753	7. PROJECT NUMBER 3056/RKMF063004	8. PROJECT COST (\$000) 23,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			920
(4) Construction Contract Award			18 AUG
(5) Construction Start			18 SEP
(6) Construction Completion			20 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHINGS	3400	2020	400
COMMUNICATIONS-ELECTRONIC EQUI	3400	2020	200

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA		4. PROJECT TITLE VIRTUAL WARFARE CENTER OPERATIONS FACILITY		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 171-212	7. RPSUID/PROJECT NUMBER 3056/RKMF183001	8. PROJECT COST (\$000) 38,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				25,168
VIRTUAL WARFARE CENTER OPERATIONS FACILITY	SM	5,774	4,273	( 24,674 )
SUSTAINABILITY & ENERGY MEASURES	LS			( 493 )
SUPPORTING FACILITIES				8,008
UTILITIES	LS			( 5,070 )
SITE IMPROVEMENTS	LS			( 1,351 )
PAVEMENTS	LS			( 1,102 )
COMMUNICATIONS SUPPORT	LS			( 406 )
DEMOLITION	SM	167	475	( 79 )
SUBTOTAL				33,176
CONTINGENCY (5.0%)				1,659
TOTAL CONTRACT COST				34,835
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,986
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				1,327
TOTAL REQUEST				38,148
TOTAL REQUEST (ROUNDED)				38,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				( 75,450 )
<p>10. Description of Proposed Construction: Construct a Virtual Warfare Center Operations Facility utilizing conventional design and construction methods to accommodate the mission of the facility. The facility will include a reinforced concrete foundation and floor slab, structural steel frames, split-faced masonry unit walls, a standing seam metal roof system with parapet, and special access program facilities (SAPF). Requirements associated with sensitive compartmentalized information facilities (SCIF) and SAPF must be incorporated into the project. Project will include fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. One facility (167 SM) will be demolished as part of this MILCON project. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 200 Tons</p>				
<p>11. Requirement: 11705 SM Adequate: 6131 SM Substandard: 0 SM</p> <p><u>PROJECT:</u> Virtual Warfare Center Operations Facility (New Mission)</p> <p><u>REQUIREMENT:</u> The Combat Air Force (CAF) requires a simulator integration facility at Nellis AFB to enable 5th generation F-35/F-22 High-End Advanced Training and Tactics Development (HEAT2). This facility, the Virtual Warfare Center Operations</p>				

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3. INSTALLATION, SITE AND LOCATION NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA			4. PROJECT TITLE VIRTUAL WARFARE CENTER OPERATIONS FACILITY	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  171-212	7. RPSUID/PROJECT NUMBER  3056/RKMF183001	8. PROJECT COST (\$000)  38,000	
<p>Facility (VWC-N Ops Center), will be the hub for connecting, controlling, and integrating multiple simulator types co-located at Nellis AFB as well as geographically separated simulators. This capability will allow warfighters to train in an unprecedented state-of-the-art environment while maximizing levels of realism unavailable or limited by live fly. This includes a localized network capable of the highest security levels, replication of modern threats, exercising Low Observable (LO) capabilities, confronting Contested Degraded and Operationally Limited (CDO) operations, all while facilitating a face-to-face planning, briefing, execution and debriefing capability at a USAF Weapons School level of rigor. The VWC-N Ops Center will require proper sizing and configuration to execute operations at Nellis AFB, to include Large Force Exercises and the CAF's most advanced and extensive levels of training and tactics development. It will house multiple simulators to include F-15C, F-15E, AWACS, man-in-the-loop Adversary Air, Tactical Command &amp; Control (C2), potential additional F-35 and F-22 sims, and follow-on potential for Navy sims (F-18, E-2D, AEGIS), bomber sims, Remotely Piloted Aircraft (RPA) sims, as well as Cyber and Space simulator workstations. Critical functions of the VWC-N Ops Center include C2, exercise management, mission briefing, execution, supervision and debriefing to significant masses of local and deployed personnel; classified and unclassified mission planning; intelligence collection management and dissemination; classified and unclassified network control; mission and threat analysis; audio visual support; equipment repair and maintenance audio-visual, computer, etc.); and security and large amounts of data storage.</p> <p><u>CURRENT SITUATION:</u> The CAF does not have a government owned facility/capability to allow warfighters to exercise high-end integrated training and tactics development in a Virtual environment. This deficiency has prompted advocacy at the CSAF level for a VWC-N Ops Center and the requirement/goal as stated by the Commander, Air Combat Command (COMACC) to "establish a Virtual Warfare Center at Nellis AFB." Nellis AFB currently has four full CAF-standard F-16 simulators and two CAF-standard F-35 simulators. Two additional F-35 simulators will be delivered to the pre-existing building in the spring of 2016 and an F-22 simulator building will begin construction in February 2016. Funding has been requested to purchase the four F-22 simulators to go inside the new building. Additional funding has been requested for four F-15E simulators and an AWACS simulator for the battlespace environment to enable high-end training, as well as the transfer of the four F-15C simulators from Langley AFB to Nellis AFB. These simulators would all be located inside the requested VWC-N Ops Center. There is no identified facility space for the command and control; exercise management; mission briefing, execution, supervision and debriefing without the requested VWC-N Ops Center.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The CAF will not have a government owned facility and will continue to be forced to utilize high cost proprietary contractor facilities that do not fully meet mission needs. The CAF will be limited in its ability to develop, train and employ high-end integrated tactics, and techniques for 5th generation aircraft. Without a facility capable of operating at the appropriate security level, the CAF will be unable to effectively exercise High-End Virtual Warfighting scenarios, which fully replicate capabilities against modern threats</p>				

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3. INSTALLATION, SITE AND LOCATION NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA		4. PROJECT TITLE VIRTUAL WARFARE CENTER OPERATIONS FACILITY	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  171-212	7. RPSUID/PROJECT NUMBER  3056/RKMF183001	8. PROJECT COST (\$000)  38,000
<p>operating in LO and CDO environments, with the ability to conduct face-to-face planning, briefing, execution and debriefing at the USAF Weapons School-level of rigor. Building a VWC-N and associated Ops Center at Nellis provides the best option/synergies to fully execute High End advanced training, not just for Nellis-based users but also for the CAF as a whole.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements" and the weapon system Facility Requirement Plan. An analysis of reasonable options for accomplishing this project (status quo, renovations, new construction) was accomplished. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception for the Economic Analysis (EA) has been prepared. 99th Air Base Wing Base Civil Engineer: (702) 652-4833. (Virtual Warfare Center Operations Facility: 5,574 SM = 60,000 SF)</p> <p><u>BASE CIVIL ENGINEER:</u> McMullen</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

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3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA		4. PROJECT TITLE VIRTUAL WARFARE CENTER OPERATIONS FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 171-212	7. PROJECT NUMBER 3056/RKMF183001	8. PROJECT COST (\$000) 38,000
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) All Other Design Costs 1,400</p> <p>(4) Construction Contract Award 18 FEB</p> <p>(5) Construction Start 18 MAR</p> <p>(6) Construction Completion 20 MAR</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project provided from other appropriations:</p>			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FLIGHT SIMULATOR EQUIPMENT	3080	2019	75,000
FURNISHINGS	3400	2019	300
COMMUNICATIONS-ELECTRONIC EQUI	3400	2019	150



1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION CANNON AIR FORCE BASE CANNON AFB SITE # 1 NEW MEXICO		4. PROJECT TITLE DANGEROUS CARGO PAD RELOCATE CATM			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 116-662	7. RPSUID/PROJECT NUMBER 1551/CZQZ143001	8. PROJECT COST (\$000) 42,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					28,620
DANGEROUS CARGO PAD & LIGHTING (116-662)		SM	30,645	226	( 6,926 )
COMBAT ARMS TRAINING & MAINT. (171-476)		SM	4,036	3,308	( 13,351 )
ROD & GUN CLUB (740-315)		SM	79	5,712	( 451 )
TRAP & SKEET RANGE (750-581)		EA	1	447,085	( 447 )
TAXIWAY PAVEMENT AND SHOULDERS (112-211)		SM	30,460	226	( 6,884 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 561 )
SUPPORTING FACILITIES					8,400
SITE PREPARATION		LS			( 2,437 )
UTILITIES		LS			( 1,317 )
PAVEMENTS		LS			( 515 )
COMMUNICATIONS		LS			( 714 )
SITE IMPROVEMENTS		LS			( 39 )
DEMOLITION		LS			( 430 )
CATM, RANGE, & TRAP AND SKEET REMEDIATION		LS			( 2,809 )
STORAGE SHED		SM	142	982	( 139 )
SUBTOTAL					37,021
CONTINGENCY (5.0%)					1,851
TOTAL CONTRACT COST					38,872
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					2,216
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					1,481
TOTAL REQUEST					42,568
TOTAL REQUEST (ROUNDED)					42,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 2,700 )
10. Description of Proposed Construction: Construct a dangerous cargo pad area and new combat arms training and maintenance (CATM) facilities to include an indoor small arms range, CATM building, and the Rod and Gun Club facility with a trap and skeet range utilizing conventional design and construction methods to accommodate the mission of the facility. This project includes demolition and remediation of the existing CATM facilities and compass calibration pad, approximately 8,501 SM in size. . Total project includes demolition, floor slab, structural framing, insulated walls and roof, HVAC, fire suppression, openings, finishes, environmental remediation, utilities, roads, parking, site improvements, communications and all other necessary support to ensure a complete and usable facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC 1-200-02 and UFC 3-260-01). The CATM facilities will be designed in accordance with Engineering Technical Letter (ETL) 11-18, NMCPHC-TM 6290.10, Indoor Firing Ranges Industrial Hygiene Technical Guide and Air Force Manual (AFMAN) 48-					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION CANNON AIR FORCE BASE CANNON AFB SITE # 1 NEW MEXICO			4. PROJECT TITLE DANGEROUS CARGO PAD RELOCATE CATM	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  116-662	7. RPSUID/PROJECT NUMBER  1551/CZQZ143001	8. PROJECT COST (\$000)  42,000	
155, Occupational and Environmental Health Exposure Controls, and 29 CFR 1910.1025, Lead.				
11. Requirement: 17192 SM    Adequate: 0 SM    Substandard: 0 SM				
<u>PROJECT:</u> Dangerous Cargo Pad Relocate CATM (Current Mission)				
<u>REQUIREMENT:</u> The 27th Special Operations Wing is a pivotal component of the Air Force Special Operations Command's ability to conduct special operations missions ranging from precision application of firepower to infiltration, exfiltration and resupply, and refueling of special operations forces. As a special operations force, the wing must be able to quickly deploy and redeploy in support of operations anywhere in the world, at a moment's notice. The speed of loading, unloading, and deploying dangerous cargo is greatly limited by the lack of a sited dangerous cargo pad. A dangerous cargo pad is required where explosives or other dangerous materials must be loaded frequently on cargo aircraft, and where existing aprons cannot be used without violations of quantity-distance safety criteria. The dangerous cargo pad will be designed to support the loading and unloading of munitions simultaneously on two C-130s, or one C-5, C-17 or Boeing 747. Construction of the new dangerous cargo pad requires the relocation of the current CATM facilities. A new and expanded CATM training facility is even more imperative now as new Air Force Qualifications Course (AFQC) requirements for Rifle/Carbine were recently published criteria based on lessons learned from the AOR. These new criteria greatly increase the amount of instructor-to-student contact time in class and on the range. In order for the assigned personnel to meet their readiness responsibility of small arms qualifications, it is critical that a compliant Small Arms Firing Range complex complete with a Combat Arms Training and Maintenance facility be available to support the assigned warfighter airmen so they may retain proficiency. The small arms range provides small arms marksmanship training with the M-9 pistol (9 mm) and M-4 rifle (5.56 mm). (Requirements continued under "Additional" section below)				
<u>CURRENT SITUATION:</u> Currently, due to a lack of a permanent dangerous cargo pad, movement of munitions and other hazardous cargo, to or from aircraft, is conducted on one of the two runways, 13/31 or 04/22. During these movements, all operations are suspended on said runway. This can mean that if repairs have one runway shut down, then the movement of in-transit explosives will shut down the second runway, leaving no available runway for flight operations until the movements are complete. Per AFMAN 32-1084, a dangerous cargo area is required to support the movement of munitions by cargo-type aircraft (C-5, C-17, Boeing 747) and to support daily C-130 operations. Siting for this facility is limited by explosive quantity-distance criteria. In order to build a dangerous cargo pad, sized for the current mission, the existing North Calibration Pad, CATM and small arms range, the Rod & Gun Club, Skeet and Trap Range, and supporting facilities must be demolished and relocated to another site. The existing CATM and small arms range do not meet Engineering Technical Letter (ETL) 11-18. The range was constructed in 1961 and does not meet current requirements, even after the renovation in 2009 was completed, since the new ETL was published while the project was under construction and was too far along to make required changes. Although it possesses earthen side berms almost 17				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION CANNON AIR FORCE BASE CANNON AFB SITE # 1 NEW MEXICO			4. PROJECT TITLE DANGEROUS CARGO PAD RELOCATE CATM	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  116-662	7. RPSUID/PROJECT NUMBER  1551/CZQZ143001	8. PROJECT COST (\$000)  42,000	
<p>feet high, it lacks overhead baffles and a roof and, therefore, is not fully enclosed in accordance with ETL 11-18.</p> <p>IMPACT IF NOT PROVIDED: Without a sited dangerous cargo pad, all operations on the runway will continue to be suspended while on or off-loading aircraft within the current procedures for hazardous material movements. In addition, an adequate on-base CATM and Range facility set needs to be provided to support the Wing's combat arms qualifications profiles in order to support mission readiness efforts.</p> <p>ADDITIONAL: Lastly, The CATM facility will support the range with functional areas to include: classrooms, administrative offices, supply and tool storage, weapons maintenance area, weapons cleaning area, weapons and ammunition storage vault, and target and miscellaneous storage. The replacement CATM facility will include force protection measures to include structural reinforcement of exterior walls and tempered glass windows. The Rod and Gun Club includes a trap and skeet range, as well as an operator's office, storage and sales area, gun and ammunition maintenance, toilets, lounge, and storage building. Existing CATM facilities including the small arms range and the Rod and Gun Club including the skeet range requires demolition and remediation clean-up before the dangerous cargo pad can be constructed. Using appropriated funds for the relocation of the Rod and Gun Club and the Trap and Skeet Range are authorized per AFI 32-1022; Planning and Programming Non-Appropriated Fund Facility Construction Projects. Ch. 3.3.2. This project meets the criteria/scope in Air Force Manual (AFMAN) 32-1084, "Facility Requirements". An economic analysis has been initiated, all known alternative options are currently being considered. This project includes NMGRT. Base Civil Engineer: 27 SOCES/CC, DSN 681-2008. Dangerous Cargo Pad &amp; Lighting: 30,645 SM = 329,860 SF; Combat Arms Training &amp; Maintenance: 4,036 SM = 43,443 SF; Rod &amp; Gun Club: 79 SM = 850 SF; Taxiway Pavement &amp; Shoulders: 30,460 SM = 327,869 SF.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION CANNON AIR FORCE BASE CANNON AFB SITE # 1 NEW MEXICO		4. PROJECT TITLE DANGEROUS CARGO PAD RELOCATE CATM	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 116-662	7. PROJECT NUMBER 1551/CZQZ143001	8. PROJECT COST (\$000) 42,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			960
(4) Construction Contract Award			18 AUG
(5) Construction Start			18 SEP
(6) Construction Completion			20 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
BULLET TRAP	3080	2017	2,200
C4I EQUIPMENT	3080	2017	400
MODULAR FURNISHINGS	3080	2017	100

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>				<b>2. DATE (YYYYMMDD)</b> 20160930						
<b>3. INSTALLATION AND LOCATION</b> HOLLOMAN AIR FORCE BASE NEW MEXICO			<b>4. COMMAND</b> AIR COMBAT COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 0.99						
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>TOTAL</b>	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF 30-Sep-16		333	2741	522	0	60	0	96	359	226	4,337	
b. END FY 2019		322	2495	464	0	60	0	96	359	226	4,022	
<b>7. INVENTORY DATA (\$000)</b>												
a. TOTAL ACREAGE		58,723										
b. INVENTORY TOTAL AS OF 30-Sep-16												4,001,838
c. AUTHORIZATION NOT YET IN INVENTORY												40,850
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2018)												4,250
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)												0
f. REMAINING DEFICIENCY												0
g. GRAND TOTAL												4,046,938
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)</b>												
a. CATEGORY												
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>				<b>(3) SCOPE</b>			<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>		
149-511	RPA Fixed Ground Control Station Facility				697 SM			4,250		Design/Build		
<b>TOTAL</b>								4,250				
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022)</b>												
FUTURE PROJECTS TOTAL 0												
<b>R&amp;M UNFUNDED REQUIREMENT (\$M)</b>												
										<b>TOTAL</b>		8.1
<b>10. MISSION OR MAJOR FUNCTIONS</b>												
Holloman Air Force Base is an Air Combat Command installation supporting T-38 Talon Depot maintenance; MQ-1 Predator and MQ-9 Reaper Formal Training Units; F-16 Formal Training Unit; German Air Force Tornado fighter squadron; QF-4 / QF-16 Full Scale Aerial Targets mission; 10-mile Test Track (AFMC); and the War Reserve Material (WRM) Bare Base support group.												
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022)</b>												
a. Air Pollution												
b. Water Pollution												
c. Occupational Safety and Health												
d. Other Environmental												
OUTSTANDING DEFICIENCIES TOTAL 0												

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION HOLLOMAN AIR FORCE BASE HOLLOMAN SITE # 1 NEW MEXICO			4. PROJECT TITLE RPA FIXED GROUND CONTROL STATION FACILITY		
5. PROGRAM ELEMENT 25219	6. CATEGORY CODE 149-511	7. RPSUID/PROJECT NUMBER 2352/KWRD143000	8. PROJECT COST (\$000) 4,250		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					2,950
GROUND CONTROL STATION		SM	697	4,150	( 2,893 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 58 )
SUPPORTING FACILITIES					887
UTILITIES		LS			( 200 )
PAVEMENTS		LS			( 200 )
SITE IMPROVEMENTS		LS			( 150 )
BACKUP POWER GENERATION		LS			( 312 )
COMMUNICATION SUPPORT		LS			( 25 )
SUBTOTAL					3,837
CONTINGENCY (5.0%)					192
TOTAL CONTRACT COST					4,029
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					230
TOTAL REQUEST					4,259
TOTAL REQUEST (ROUNDED)					4,250
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 8,774 )
10. Description of Proposed Construction: Construct a Fixed Ground Control Station (FGCS) facility using conventional design and construction methods to accommodate the mission of the facility. The facility will include a reinforced concrete foundation, structural steel frame, masonry walls and a standing seam metal roof. Project will include fire suppression systems, all utilities, pavements, communications, site improvements, backup power generation and associated support facilities to provide a complete and useable facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01. Air Conditioning: 20 Tons					
11. Requirement: 697 SM Adequate: 0 SM Substandard: 0 SM PROJECT: Remotely Piloted Aircraft (RPA) Fixed Ground Control Station (Current Mission) REQUIREMENT: An adequately sized and configured facility is required to accommodate the installation of ten new Block 50 FGCS and supporting equipment into a single facility. The facility will house each FGCS in its own mission room and provide communications rooms for connectivity to each squadron operations center. This allows Holloman to transition from a temporary Mobile Ground Control Station (MGCS) system located on an active flight line to a purpose-built fixed facility for RPA formal training.					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HOLLOMAN AIR FORCE BASE HOLLOMAN SITE # 1 NEW MEXICO			4. PROJECT TITLE RPA FIXED GROUND CONTROL STATION FACILITY	
5. PROGRAM ELEMENT  25219	6. CATEGORY CODE  149-511	7. RPSUID/PROJECT NUMBER  2352/KWRD143000	8. PROJECT COST (\$000)  4,250	
<p>CURRENT SITUATION: RPA formal training is currently accomplished from a centralized MGCS system located on Holloman AFB. The MGCS was designed as a deployable asset for austere environments, but has been utilized as a temporary command and control unit for each RPA training sortie at Holloman AFB since 2009. Once replaced by the originally-planned Block 50 FGCSs, the ten MGCS units located on Holloman AFB will be redeployed to other world-wide locations to support COCOM taskings. This project will complete the Field Training Unit (FTU) beddown as originally planned and approved.</p> <p>IMPACT IF NOT PROVIDED: Both MQ-1 (Predator) and MQ-9 (Reaper) airframes will not be able to take advantage of most up-to-date command and control linkages provided by the Block 50 FGCS pilot and sensor operator stations. Incidences of "lost link" scenarios will continue at a high rate potentially resulting in aircraft shutdown, airfield mishaps, and lost training time. Without the Block 50 FGCSs in place, the ten MGCSs will not be available for COCOM use.</p> <p>ADDITIONAL: This project meets the criteria/scope in Air Force Manual 32-1084, Facility Requirements. A preliminary analysis of alternatives indicates that constructing a new facility to house Block 50 FGCS is the only feasible option. A certificate of exception has been prepared and is pending approval. 49th Wing Base Civil Engineer: 575-572-3071. RPA FGCS Facility: 697 SM = 7,500 SF</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION HOLLOMAN AIR FORCE BASE HOLLOMAN SITE # 1 NEW MEXICO		4. PROJECT TITLE RPA FIXED GROUND CONTROL STATION FACILITY	
5. PROGRAM ELEMENT 25219	6. CATEGORY CODE 149-511	7. PROJECT NUMBER 2352/KWRD143000	8. PROJECT COST (\$000) 4,250
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			20-MAY-16
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2017			15%
* (d) Date 35% Designed			01-FEB-17
(e) Date Design Complete			01-SEP-17
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			0
(b) All Other Design Costs			168
(c) Total			168
(d) Contract			0
(e) In-house			0
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			19 MAR
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE	3400	19	24
BLOCK 50 MISSION EQUIPMENT	3080	19	8,500
COMMUNICATION EQUIPMENT	3400	19	250

<b>1. COMPONENT</b> AIR FORCE			<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE (YYYYMMDD)</b> 20160930			
<b>3. INSTALLATION AND LOCATION</b> MINOT AIR FORCE BASE NORTH DAKOTA						<b>4. COMMAND</b> AIR FORCE GLOBAL STRIKE COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.16			
<b>6. PERSONNEL</b>			<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>TOTAL</b>
			<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF 30-Sep-16			608	4332	960	0	0	0	0	0	61	5,961
b. END FY 2022			603	4339	942	0	0	0	0	0	61	5,945
<b>7. INVENTORY DATA (\$000)</b>												
a. TOTAL ACREAGE			24,708									
b. INVENTORY TOTAL AS OF 30-Sep-16												3,159,647
c. AUTHORIZATION NOT YET IN INVENTORY												86,055
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2018)												27,000
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)												59,000
f. REMAINING DEFICIENCY												20,000
g. GRAND TOTAL												3,351,702
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)</b>												
a. CATEGORY												
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>					<b>(3) SCOPE</b>			<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>	
171-475	Indoor Firing Range					5,637 SM			27,000		(1) START	(2) COMPLETE
											12/16	09/17
<b>TOTAL</b>								27,000				
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022)</b>												
141-753 Consolidated Helo/TRF Ops/AMU and Alert Fac						12,394 SM			59,000			
<b>FUTURE PROJECTS TOTAL</b>								59,000				
<b>R&amp;M UNFUNDED REQUIREMENT (\$M)</b>								<b>TOTAL</b>		54.9		
<b>10. MISSION OR MAJOR FUNCTIONS</b>												
The 5th Bomb Wing is the host wing at Minot AFB and operates a fleet of B-52H aircraft. The 91st Missile Wing is a major tenant organization on the installation. The 91st Missile Wing is responsible for the operation, maintenance and security of 150 Minuteman III Intercontinental Ballistic Missiles.												
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022)</b>												
a. Air Pollution												
b. Water Pollution												
c. Occupational Safety and Health												
d. Other Environmental												
<b>OUTSTANDING DEFICIENCIES TOTAL</b>								0				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION MINOT AIR FORCE BASE MINOT AFB SITE # 1 NORTH DAKOTA			4. PROJECT TITLE INDOOR FIRING RANGE		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 171-475	7. RPSUID/PROJECT NUMBER 2837/QJVF012005	8. PROJECT COST (\$000) 27,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					20,043
INDOOR RANGE		SM	5,637	3,486	( 19,650 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 393 )
SUPPORTING FACILITIES					3,937
UTILITIES		LS			( 873 )
WATER/SEWER UTILITY CONNECTION FEE		LS			( 11 )
GAS UTILITY CONNECTION FEE		LS			( 5 )
ELECTRIC UTILITY CONNECTION FEE		LS			( 5 )
PAVEMENTS		LS			( 783 )
SITE IMPROVEMENTS		LS			( 383 )
DEMOLITION		SM	2,866	416	( 1,192 )
ANTITERRORISM MEASURES		LS			( 385 )
COMMUNICATION SUPPORT		LS			( 300 )
SUBTOTAL					23,980
CONTINGENCY (5.0%)					1,199
TOTAL CONTRACT COST					25,179
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					1,435
TOTAL REQUEST					26,614
TOTAL REQUEST (ROUNDED)					27,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					125
10. Description of Proposed Construction: Construct an indoor firing range consisting of 35 small arms positions and four machine gun positions; all firing positions shall be 25-meters in length and be capable of supporting up to 7.62-mm ammunition. Construction shall be a one-story building with reinforced concrete foundation and floor slab, low-slope built-up asphalt roof, structural steel frame, reinforced masonry walls, and load-bearing precast concrete wall panels. Project includes all plumbing, mechanical, fire detection and suppression, electrical, communications, mass notification system, energy management control system (EMCS) and all other supporting work necessary to make a complete and useable facility. Project includes demolition of four buildings (2,886 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 60 Tons					
11. Requirement: 5637 SM Adequate: 0 SM Substandard: 5637 SM					
PROJECT: Indoor Firing Range (Current Mission)					
REQUIREMENT: A properly designed Indoor Firing Range is required at Minot AFB to					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION MINOT AIR FORCE BASE MINOT AFB SITE # 1 NORTH DAKOTA			4. PROJECT TITLE INDOOR FIRING RANGE	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  171-475	7. RPSUID/PROJECT NUMBER  2837/QJVF012005	8. PROJECT COST (\$000)  27,000	
<p>support Combat Arms Training and Maintenance (CATM) operations for an average of 6,200 training slots per year. Due to frequent snow accumulation and extended periods of continuous sub-freezing temperatures common to Minot's northern tier location, an adequately sized indoor range is necessary to facilitate required weapons at Minot AFB. Training demand drives a requirement for 35 small arm positions and four machine gun positions as well as associated targetry support, level four canopy and safety baffles, bullet traps and an auger bullet retrieval system. Air Force Manual 32-1084, "Facility Requirements" requires a minimum of 14 small arms shooting positions with additional positions added in increments of seven based on training demand. Minimum daily training demand at Minot AFB is commonly at or above 30 students which drives need for 35 small arms shooting positions.</p> <p>CURRENT SITUATION: Minot AFB currently has an outdoor firing range with 20 firing positions. On average, 20 days per month are available to fire of which 1-3 days are needed for mandatory range maintenance and weapons inspections as required by AFI 36-2226, "Combat Arms Program;" leaving 17 days per month or 204 days per year available for training. With 204 days available to train 6,200 students in a given year, an average of 30 personnel must be trained on each available day; exceeding capacity by a minimum of 10 personnel each training day. It is important to note that some assigned personnel are required to qualify on multiple weapon systems, multiple times per year. Capacity issues are compounded by required downtime to remove lead from the range backstop. One month of range downtime is required to conduct required lead removal at a cost of \$7,500.00 and loss of a minimum of 400 training slots. Lost training time is further aggravated by the extreme climate of Minot AFB which has resulted in a 6% drop in qualification rates for assigned personnel. In addition to capacity issues, inadequate ventilation routinely exposes range personnel to copper fumes and carbon monoxide 3.5 times and 5 times, respectively, above acceptable standards. A Risk Assessment Code (RAC) 3 has been assigned to the copper fume issue while a RAC 1 has been assigned to the carbon monoxide issue. To mitigate exposure, trainers are only allowed to teach one course per 24 hour period resulting in an additional six trainers being assigned to meet training demands. The number of personnel allowed to fire at any given time has been reduced to 14 as a second measure to mitigate exposure hazards; further compounding training demand issues. Additional toxin testing accomplished after implementation of mitigation measures show personnel exposure to toxins has been reduced, but not below required thresholds. No off-base ranges are available to be used by Minot personnel.</p> <p>IMPACT IF NOT PROVIDED: If this project is not funded, Minot AFB CATM personnel will continue to be exposed to unacceptable levels of toxic substances and will continue to struggle to meet training demand. Continued drops in qualification rates is directly tied to personnel readiness. Lack of personnel readiness has potential to negatively impact missions assigned to the 5th Bomb Wing and 91st Missile Wing.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." An analysis of reasonable alternatives showed that new construction is the only feasible means to meet mission requirements. An economic analysis waiver has been approved. 5th Bomb Wing Base Civil Engineer:</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION MINOT AIR FORCE BASE MINOT AFB SITE # 1 NORTH DAKOTA			4. PROJECT TITLE INDOOR FIRING RANGE	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  171-475	7. RPSUID/PROJECT NUMBER  2837/QJVF012005	8. PROJECT COST (\$000)  27,000	
<p>701-723-243. Indoor Range: 5637 SM = 60,676 SF.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION MINOT AIR FORCE BASE MINOT AFB SITE # 1 NORTH DAKOTA		4. PROJECT TITLE INDOOR FIRING RANGE	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 171-475	7. PROJECT NUMBER 2837/QJVF012005	8. PROJECT COST (\$000) 27,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			01-DEC-16
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2017			15%
* (d) Date 35% Designed			01-MAR-17
(e) Date Design Complete			01-SEP-17
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			YES
(b) Where Design Was Most Recently Used -			Buckley
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			1,620
(b) All Other Design Costs			810
(c) Total			2,430
(d) Contract			2,025
(e) In-house			405
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			20 MAR
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE, FIXTURE & EQUIP	3400	20	75
COMMUNICATIONS EQUIPMENT	3400	20	50



1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION ALTUS AIR FORCE BASE ALTUS AIR FORCE BASE SITE # 1 OKLAHOMA			4. PROJECT TITLE KC-46A FTU FUSELAGE TRAINER PHASE 2		
5. PROGRAM ELEMENT 41221	6. CATEGORY CODE 171-625	7. RPSUID/PROJECT NUMBER 1361/AGGN193001	8. PROJECT COST (\$000) 4,900		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					3,674
ADD FUSELAGE TRAINER FACILITY (171-625)		SM	801	4,248	( 3,403 )
ALTER FUSELAGE TRAINER FACILITY (171-625)		SM	11	4,350	( 48 )
COVERED STORAGE (442-628)		SM	242	626	( 151 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 72 )
SUPPORTING FACILITIES					719
SPECIAL FOUNDATIONS		LS			( 67 )
SITE IMPROVEMENTS		LS			( 435 )
UTILITIES		LS			( 172 )
COMMUNICATIONS		LS			( 45 )
SUBTOTAL					4,393
CONTINGENCY (5.0%)					220
TOTAL CONTRACT COST					4,613
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					263
TOTAL REQUEST					4,876
TOTAL REQUEST (ROUNDED)					4,900
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 10,420 )
10. Description of Proposed Construction: Add/Alter the existing high bay of the Fuselage Trainer (FuT) facility using economical design and construction methods to accomplish the mission of the facility. The facility will consist of a cast in place concrete footer and foundation walls, a steel structural frame with brick veneer and factory-finished sloped roof with rigid insulation board. Project will include fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.					
Air Conditioning: 100 Tons					
11. Requirement: 2280 SM Adequate: 1226 SM Substandard: 0 SM					
PROJECT: Add Alter KC-46A FTU Fuselage Trainer Phase 2 (New Mission)					
REQUIREMENT: The Air Force has designated Altus AFB, OK as the Formal Training Unit (FTU) for the KC-46A tanker aircraft. This facility will support enterprise training and beddown of a KC-46A training squadron comprised eight aircraft. These aircraft will be delivered from FY17 through FY22. Adequately sized, configured and conditioned Fuselage Trainers (FuT) are required to support cargo load planning, configuration training including converting interior passenger support,					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION ALTUS AIR FORCE BASE ALTUS AIR FORCE BASE SITE # 1 OKLAHOMA			4. PROJECT TITLE KC-46A FTU FUSELAGE TRAINER PHASE 2	
5. PROGRAM ELEMENT  41221	6. CATEGORY CODE  171-625	7. RPSUID/PROJECT NUMBER  1361/AGGN193001	8. PROJECT COST (\$000)  4,900	
<p>aero medical evacuation, cargo alignments as well as fueling/defueling and emergency egress training. In order to maintain required training proficiency, two FuT units are needed at Altus AFB. Each FuT will support training for every four assigned KC-46A aircraft. Project AGGN 14-3003 will provide space for one FuT and AGGN 19-3001 (this request) will provide space for the second. This 1,054 SM fuselage trainer add/alter project is the second of a two phase construction of the 2,280 SM FuT (AGGN143003).</p> <p>CURRENT SITUATION: There are no existing facilities on Altus AFB configured to support the 147 ft x 50 ft x 50 ft KC-46A FuT. Additionally, the two existing C-17 FuT facilities do not afford space to add this FuT requirement and they do not meet current ATPF setback requirements.</p> <p>IMPACT IF NOT PROVIDED: Without this project being executed in FY 2018, the Air Force will be unable to provide all load master training necessary to continue operation of the KC-46A aircraft without significant workarounds. Four KC-46A aircraft are scheduled to arrive in FY17. The remaining four aircraft (total of 8) will continue to arrive through FY22 however, following the arrival of the fifth aircraft in FY20, a single FuT will no longer be able to adequately support training operations. The lack of a facility for the second FuT (this request) will greatly increase training costs by driving the use of mission aircraft to provide required training; placing KC-46A aircraft at higher risk of damage due to training accidents. Lack of a facility to house the KC-46A FuT will result in higher fuel, maintenance, and operational costs to the Air Force.</p> <p>ADDITIONAL: The scope of this projects meets the criteria of Air Force Manual 32-1084, "Facility Requirements" and the KC-46A Formal Training Unit Beddown Program Plan 14-01. An economic analysis of reasonable alternatives was accomplished comparing status quo, phased-approach, new-construction and renovation alternatives. The analysis indicated that a phased-approach (this request) is the most cost effective alternative that meets all operational requirements and allows for immediate beddown of KC-46A aircraft at Altus AFB. 97th Air Mobility Wing Base Civil Engineer: 580-481-6530. Add KC-46A FTU Fuselage Trainer Phase 2: 1,043 SM = 11,227 SF; Alter KC-46A FTU Fuselage Trainer Facility: 11 SM = 120 SF; Covered Storage: 242 SM = 2605 SF.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION ALTUS AIR FORCE BASE ALTUS AIR FORCE BASE SITE # 1 OKLAHOMA		4. PROJECT TITLE KC-46A FTU FUSELAGE TRAINER PHASE 2	
5. PROGRAM ELEMENT 41221	6. CATEGORY CODE 171-625	7. PROJECT NUMBER 1361/AGGN193001	8. PROJECT COST (\$000) 4,900
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			20-MAY-16
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2017			15%
* (d) Date 35% Designed			01-FEB-17
(e) Date Design Complete			01-SEP-17
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			294
(b) All Other Design Costs			147
(c) Total			441
(d) Contract			368
(e) In-house			74
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			19 MAR
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FUSELAGE TRAINER	3080	2017	10,000
FURNISHINGS AND EQUIPMENT	3400	2018	420

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20160930					
<b>3. INSTALLATION AND LOCATION</b> JOINT BASE SAN ANTONIO - LACKLAND AIR FORCE BASE TEXAS			<b>4. COMMAND</b> AIR EDUCATION AND TRAINING COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 0.86						
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>		<b>TOTAL</b>		
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED		CIVILIAN	
a. AS OF	30-Sep-16	691	3335	2465	555	1356	25	1634	7557	5708	23,326	
b. END FY	2022	679	3362	2453	555	1356	25	1672	7179	6630	23,911	
<b>7. INVENTORY DATA (\$000)</b>												
a. TOTAL ACREAGE		2,720										
b. INVENTORY TOTAL AS OF		30-Sep-16										
										4,610,439		
c. AUTHORIZATION NOT YET IN INVENTORY												
										202,530		
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY2018)												
										138,130		
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY2019-2022)												
										55,000		
f. REMAINING DEFICIENCY												
										25,000		
g. GRAND TOTAL												
										5,031,099		
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY2018)</b>												
a. CATEGORY												
<b>(1) CODE</b>		<b>(2) PROJECT TITLE</b>				<b>(3) SCOPE</b>		<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>		
										(1) START (2) COMPLETE		
721-311	BMT Recruit Dormitory 7					26,130 SM	90,130	07/16	09/17			
171-621	BMT Classrooms/Dining Facility 4					5,891 SM	38,000	07/16	09/17			
149-962	Air Traffic Control Tower					586 SM	10,000	Design/Build				
							<b>TOTAL</b>	138,130				
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022)</b>												
730-773 BMT Chapel for America's Airmen					8,768 SM		30,000					
141-456 91 COS Operations Center					3,886 SM		25,000					
							<b>FUTURE PROJECTS TOTAL</b>	55,000				
<b>R&amp;M UNFUNDED REQUIREMENT (\$M)</b>							<b>TOTAL</b>	9.4				
<b>10. MISSION OR MAJOR FUNCTIONS</b>												
A training wing which includes Basic Military Training, Security Forces, Combat Convoy/Arms/Control, Pararescue, Survival Evasion Resistance Escape, Logistics, Enlisted Aircrew, Services, Contracting, Vehicle Maintenance, Military Training Instructor, Defense Language Institute English Language Center, Inter-American Air Forces Academy, and DoD Military Working Dog Training. Additional missions include Air Force Security Forces Center, Recruiting, Cryptographic maintenance, Reserve C-5 training, and a major medical center.												
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022)</b>												
a. Air Pollution												
b. Water Pollution												
c. Occupational Safety and Health												
d. Other Environmental												
							<b>OUTSTANDING DEFICIENCIES TOTAL</b>	0				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO LACKLAND AIR FORCE BASE SITE # 1 TEXAS		4. PROJECT TITLE AIR TRAFFIC CONTROL TOWER		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 149-962	7. RPSUID/PROJECT NUMBER 2461/KELL123018	8. PROJECT COST (\$000) 10,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				5,795
CONTROL TOWER	SM	586	9,696	( 5,682 )
SUSTAINABILITY & ENERGY MEASURES	LS			( 114 )
SUPPORTING FACILITIES				2,957
UTILITIES	LS			( 857 )
SITE IMPROVEMENTS	LS			( 150 )
PAVEMENTS	LS			( 274 )
SPECIAL FOUNDATIONS	LS			( 40 )
DEMOLITION	SM	708	1,276	( 904 )
BACKUP GENERATOR	LS			( 200 )
COMMUNICATIONS	LS			( 532 )
SUBTOTAL				8,752
CONTINGENCY (5.0%)				438
TOTAL CONTRACT COST				9,190
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				524
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				350
TOTAL REQUEST				10,064
TOTAL REQUEST (ROUNDED)				10,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				( 959 )
<p>10. Description of Proposed Construction: Construct an Air Traffic Control Tower (ATCT) with reinforced concrete pile foundation and slab floor, masonry walls and standing seam metal roof. This project includes an elevator, a catwalk surrounding the tower cab as well as utilities, site improvements, pavements, special foundations, a backup power generator and all other work necessary to provide a complete and usable facility. This project will demolish two facilities (708 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 10 Tons</p>				
<p>11. Requirement: 586 SM Adequate: 0 SM Substandard: 433 SM</p> <p><u>PROJECT:</u> Air Traffic Control Tower (Current Mission)</p> <p><u>REQUIREMENT:</u> The control tower houses air traffic control radio and landline consoles, precision approach status indicators, and work space for air traffic controllers and staff members. The control tower directly supports the 149th Fighter Wing, 433d Airlift Wing, 775th Aeromedical Evacuation Flight, Port San Antonio, and nearly 4,000 transient aircraft operations each year. Service is provided to all aircraft operating within 5 miles of Joint Base San Antonio-</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO LACKLAND AIR FORCE BASE SITE # 1 TEXAS			4. PROJECT TITLE AIR TRAFFIC CONTROL TOWER	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  149-962	7. RPSUID/PROJECT NUMBER  2461/KELL123018	8. PROJECT COST (\$000)  10,000	
<p>Lackland. The project scope includes the control tower cab with associated communications and air traffic control equipment. The control tower cab shall provide space for up to nine personnel working in the tower cab. Facility should include training room, tower simulator training room, crew briefing room, office space for the tower chief controller, assistant chief controller, TERPS specialist, training NCO, Airfield Operations Flight Commander, and administrative personnel.</p> <p><u>CURRENT SITUATION:</u> The existing control tower was built in 1970 to accommodate first generation radar scopes and consoles and has not received major renovation since the facility was constructed. The present structure is 280 SM undersized and cannot adequately accommodate equipment upgrades or provide adequate space for aircraft controller operational training, the Supervisor of Flying (SOF) and staff offices. A Fire Safety Deficiency Code (FSDC) 1 has been issued due to non-compliance with maximum occupancy standards. The height of the tower is 20 feet lower than required resulting in an inability of personnel to adequately control aircraft and vehicle movements on the airfield. Additionally, various facility components of the existing control tower have deteriorated to a point in which it is no longer economical to make repairs. Most notably the electrical system is incapable of providing reliable power to control tower equipment, roof leaks result in frequent water intrusion inside the facility and exterior finishes routinely become dislodged creating significant flightline safety issues.</p> <p><u>IMPACT IF NOT PROVIDED:</u> In order to comply with maximum occupancy standards, training schedules have been adjusted for individuals receiving controller training. The upgrade training timeline for apprentice controllers is extended as a result which negatively impacts personnel readiness. Additionally, controllers will continue to be hampered in their ability to adequately control aircraft and vehicle movements on the airfield as visibility over the airfield is reduced due to the low height of the tower. These issues will continue to negatively impact airfield operations and will continue to be a source of safety concerns on the flightline.</p> <p><u>ADDITIONAL:</u> This project meets the scope/criteria contained in Air Force Handbook 32-1084, "Facility Requirements." An economic analysis comparing status quo, renovation, and new construction was accomplished. This analysis determined new construction is the most cost effective option to meet mission requirements. 502d Air Base Wing Base Civil Engineer: (210) 671-2977. Air Traffic Control Tower: 586 SM = 6308 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION JOINT BASE SAN ANTONIO LACKLAND AIR FORCE BASE SITE # 1 TEXAS		4. PROJECT TITLE AIR TRAFFIC CONTROL TOWER	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 149-962	7. PROJECT NUMBER 2461/KELL123018	8. PROJECT COST (\$000) 10,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			400
(4) Construction Contract Award			18 AUG
(5) Construction Start			18 SEP
(6) Construction Completion			20 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE, FIXTURES AND EQMT	3400	2018	50
AIRCRAFT CONTROL EQUIPMENT	3400	2018	834
COMMUNICATIONS EQUIPMENT	3400	2018	75

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO LACKLAND AIR FORCE BASE SITE # 1 TEXAS			4. PROJECT TITLE BMT RECRUIT DORMITORY 7		
5. PROGRAM ELEMENT 85976	6. CATEGORY CODE 721-311	7. RPSUID/PROJECT NUMBER 2461/MPLS083737R7	8. PROJECT COST (\$000) 90,130		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					65,587
RECRUIT DORMITORY (721-311)		SM	21,121	2,451	( 51,772 )
MTI ADMINISTRATIVE SPACE (171-627)		SM	1,261	2,887	( 3,641 )
TRAINING/FORMATION OPEN SPACE (179-371)		SM	3,283	2,298	( 7,544 )
WEAPONS CLEANING PAVILION (145-921)		SM	465	2,890	( 1,344 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 1,286 )
SUPPORTING FACILITIES					15,623
SPECIAL DRILLED PIER FOUNDATION		LS			( 787 )
SITE IMPROVEMENTS		LS			( 1,923 )
UTILITIES		LS			( 3,070 )
PAVEMENTS		LS			( 2,835 )
COMMUNICATIONS INFRASTRUCTURE		LS			( 200 )
DEMOLITION		SM	40,725	167	( 6,807 )
SUBTOTAL					81,209
CONTINGENCY (5.0%)					4,060
TOTAL CONTRACT COST					85,270
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					4,860
TOTAL REQUEST					90,130
TOTAL REQUEST (ROUNDED)					90,130
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 2,750 )
10. Description of Proposed Construction: Construct a Basic Military Training (BMT) Recruit Dormitory complex utilizing conventional design and construction methods to accommodate the mission of the facility. The facility will be multi-story and will include a drilled pier foundation, concrete floor slabs, structural steel frame, masonry walls, standing seam metal roof, and an elevator. Areas include administrative support, open-bay dormitories, central latrines, drill pad, weapons cleaning pavilion, physical training areas, and storage. The project demolishes three buildings (40,725 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Antiterrorism/force protection requirements per UFC 4-010-01. Air Conditioning: 450 Tons					
11. Requirement: 235564 SM Adequate: 120847 SM Substandard: 133482 SM PROJECT: Construct BMT Recruit Dormitory 7 (Current Mission)  REQUIREMENT: A major Air Force objective is to provide recruits with facilities conducive to their proper housing, dining, and training. Properly sized, sited,					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO LACKLAND AIR FORCE BASE SITE # 1 TEXAS			4. PROJECT TITLE BMT RECRUIT DORMITORY 7	
5. PROGRAM ELEMENT  85976	6. CATEGORY CODE  721-311	7. RPSUID/PROJECT NUMBER  2461/MPLS083737R7	8. PROJECT COST (\$000)  90,130	
<p>designed, and furnished facilities are essential to successfully train future Air Force enlisted personnel. To support current accession rates, a total of 8 Recruit Housing &amp; Training (RH&amp;T) facilities are required to accomplish the Basic Military Training (BMT) mission at Lackland AFB. This project provides the seventh Airmen Training Complex (ATC) dormitory building in the RH&amp;T Replacement program. This ATC facility will house a Basic Military Training Squadron including dormitory and administrative space. This project is designed to accommodate 1,248 recruits; 48 recruits per flight, 24 flights per squadron with 4 reserve bed spaces per flight in order to address surges, gender separation and injured recruits. This project will also construct a new drill pad, running track, exercise areas, war skills training areas, and a pavilion for training weapons cleaning, storage, and latrines.</p> <p>CURRENT SITUATION: RH&amp;T facilities, the BMT program, and Lackland AFB form an initial, but lasting impression of the Air Force to all new recruits. Existing 220,000 SF RH&amp;T facilities, originally constructed in the 1960's and 1970's, were designed to provide housing, dining, classrooms, and other training space in one facility in order to develop teamwork, discipline, and esprit de corps among the recruits. These facilities are outdated and are inadequate to support current and planned accessions of Air Force Active Duty, Reserve, and Air National Guard personnel considering future force structure and strength. Due to deterioration, age, and exceeding their useful life, the RH&amp;Ts require significant O&amp;M capital to keep them operational. Available training hours, training quality, cohesiveness, and esprit de corps are degraded as a direct result of decentralized BMT facilities and functions. A centralized, master planned, BMT campus does not exist. BMT has difficulty accommodating summer recruit surges while accomplishing maintenance, repair and renovation projects of the aging, inadequate, and substandard RH&amp;Ts. Recruits do not have the minimum standard square footage during surge and overhaul periods forcing as many as 65 recruits per flight in facilities designed for 50 recruits per flight. This further stresses infrastructure systems and accelerates deterioration. The fire protection system is inadequate and obsolete. The mechanical, electrical, and lighting systems and interior finishes are at the end of their useful lives and require replacement.</p> <p>IMPACT IF NOT PROVIDED: One of Lackland Air Force Base's primary missions is to educate and train every Basic Military Training (BMT) enlisted recruit when entering military service in the U.S. Air Force. Without quality BMT programs and state-of-the-art, master-planned facilities, the Air Force will have difficulty recruiting, training, and retaining new recruits. BMT schedules will continue to be stretched to critical levels that risk mission loss. Facilities will continue to age and will require increasingly more capital to keep them operational. During surge periods, or when existing RH&amp;Ts are being repaired, maintained, or overhauled, flight sizes will increase and recruits will continue to live in space with less than the minimum standard square footage per recruit. Significant capital must be spent to convert the existing RH&amp;T facilities to meet current antiterrorism/force protection (AT/FP) criteria.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." A full Economic Analysis was performed</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO LACKLAND AIR FORCE BASE SITE # 1 TEXAS			4. PROJECT TITLE BMT RECRUIT DORMITORY 7	
5. PROGRAM ELEMENT  85976	6. CATEGORY CODE  721-311	7. RPSUID/PROJECT NUMBER  2461/MPLS083737R7	8. PROJECT COST (\$000)  90,130	
<p>demonstrating the economic advantage of new construction to meet the program requirements. Based on the net present value and benefits of prospective alternatives, new construction was found to have the best overall ratio of lifecycle cost vs. benefit. In addition to demolition included in this project, numerous other substandard RH&amp;T facilities will be demolished by projects submitted in previous budget requests but not yet completed and by projects planned for the future. Additionally, remaining facility deficits will be accounted for under future projects. Supporting facility costs exceed 25% of primary facility cost due to relocation of a baseball field and required special foundations. 502d Air Base Wing Base Civil Engineer: 210-671-2977. BMT Recruit Dormitory 7: 26,130 SM = 281,261 SF</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION JOINT BASE SAN ANTONIO LACKLAND AIR FORCE BASE SITE # 1 TEXAS		4. PROJECT TITLE BMT RECRUIT DORMITORY 7	
5. PROGRAM ELEMENT 85976	6. CATEGORY CODE 721-311	7. PROJECT NUMBER 2461/MPLS083737R7	8. PROJECT COST (\$000) 90,130
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			01-JUL-16
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2017			15%
* (d) Date 35% Designed			01-MAR-17
(e) Date Design Complete			01-SEP-17
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			5,408
(b) All Other Design Costs			2,704
(c) Total			8,112
(d) Contract			6,760
(e) In-house			1,352
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			20 MAR
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
WALL LOCKERS AND FURNISHINGS	3400	2019	2,560
AUTOMATED DATA PROCESSING	3400	2019	190

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO LACKLAND AIR FORCE BASE SITE # 1 TEXAS			4. PROJECT TITLE BMT CLASSROOMS/DINING FACILITY 4		
5. PROGRAM ELEMENT 85976	6. CATEGORY CODE 171-621	7. RPSUID/PROJECT NUMBER 2461/MPLS083737S4	8. PROJECT COST (\$000) 38,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					28,152
BMT CLASSROOMS (171-621)		SM	5,618	2,898	( 16,281 )
DINING FACILITY (722-351)		SM	4,200	2,695	( 11,319 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 552 )
SUPPORTING FACILITIES					5,656
SPECIAL DRILLED PIER FOUNDATION		LS			( 451 )
SITE IMPROVEMENTS		LS			( 1,020 )
UTILITIES		LS			( 3,553 )
PAVEMENTS		LS			( 354 )
COMMUNICATIONS INFRASTRUCTURE		LS			( 278 )
SUBTOTAL					33,808
CONTINGENCY (5.0%)					1,690
TOTAL CONTRACT COST					35,499
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					2,023
TOTAL REQUEST					37,522
TOTAL REQUEST (ROUNDED)					38,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 1,793 )
10. Description of Proposed Construction: Construct a Basic Military Training Classroom and Dining Facility Complex utilizing conventional design and construction methods to accommodate the mission of the facility. Construction includes a multi-story facility consisting of a drilled pier foundation, concrete floor slabs, structural steel frame, masonry walls, standing seam metal roof, and an elevator. Areas include kitchen, dining areas, and multiple classrooms for the residents of two Airmen Training Complexes (ATC) and all other work necessary to make complete and useable facilities. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. Air Conditioning: 520 Tons					
11. Requirement: 54340 SM Adequate: 34624 SM Substandard: 35287 SM PROJECT: Construct Basic Military Training (BMT) Satellite Classroom/Dining Facility (Current Mission) REQUIREMENT: A major Air Force objective is to provide recruits with facilities conducive to their proper housing, dining, and training. Properly sized, sited, designed, and furnished facilities are essential to successfully train future Air Force enlisted personnel. This project provides the fourth of four satellite dining hall/classroom buildings in the Recruit Housing and Training (RH&T) facility replacement program. Each satellite facility will serve two new recruit					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO LACKLAND AIR FORCE BASE SITE # 1 TEXAS			4. PROJECT TITLE BMT CLASSROOMS/DINING FACILITY 4	
5. PROGRAM ELEMENT  85976	6. CATEGORY CODE  171-621	7. RPSUID/PROJECT NUMBER  2461/MPLS083737S4	8. PROJECT COST (\$000)  38,000	
<p>dormitories (~2500 recruits). This program replaces dining hall and classroom facilities that are currently located in the Basic Military Training Squadron dormitory buildings. The ground floor will consist of a serving area, fast-food kitchen and dining area. Provides for laundry pickup and a minor clinic support area. The second and third floors will consist of classrooms.</p> <p>CURRENT SITUATION: RH&amp;T facilities, the BMT program, and Lackland AFB form an initial, but lasting impression of the Air Force to all new recruits. Existing 220,000 SF RH&amp;T facilities, originally constructed in the 1960's and 1970's, were designed to provide housing, dining, classrooms, and other training space in one facility in order to develop teamwork, discipline, and esprit de corps among the recruits. Several of these facilities are outdated and are inadequate to support current and planned accessions of Air Force Active Duty, Reserve, and Air National Guard personnel considering future force structure and strength. Due to deterioration, age, and exceeding their service life, existing, not-replaced RH&amp;Ts require significant O&amp;M capital to keep them operational. BMT has difficulty accommodating summer recruit surges while accomplishing maintenance, repair and renovation projects of the aging, inadequate, and substandard RH&amp;Ts. Recruits do not have the minimum standard square footage during surge and overhaul periods forcing as many as 65 recruits per flight in facilities designed for 50 recruits per flight. The existing classroom space in the not-replaced RH&amp;Ts is approximately one-half of what is needed. The mechanical, electrical, and lighting systems and interior finishes are at the end of their service lives and require replacement. The food preparation and serving areas are currently located in each RH&amp;T building and need to be centralized to improve efficiency and accommodate new equipment.</p> <p>IMPACT IF NOT PROVIDED: Without quality BMT programs and adequate facilities, the Air Force will have difficulty recruiting, training, and retaining new recruits. Facilities will continue to age and will require increasingly more capital to keep them operational. During surge periods, or when existing RH&amp;Ts are being repaired, maintained, or overhauled, flight sizes will increase and recruits will continue to live in space with less than the minimum standard square footage per recruit.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." A full Economic Analysis was performed demonstrating the economic advantage of new construction to meet the program requirements. Based on the net present value and benefits of prospective alternatives, new construction was found to have the best overall ratio of life cycle cost vs. benefit. Existing substandard facilities will be demolished by projects authorized but not yet completed and projects planned for the future. The remaining deficit will be met by projects authorized but not yet complete. 502d Air Base Wing Base Civil Engineer: (210) 671-2977. BMT Satellite Classrooms/Dining Facility: 9818 SM = 105,680 SF</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION JOINT BASE SAN ANTONIO LACKLAND AIR FORCE BASE SITE # 1 TEXAS		4. PROJECT TITLE BMT CLASSROOMS/DINING FACILITY 4	
5. PROGRAM ELEMENT 85976	6. CATEGORY CODE 171-621	7. PROJECT NUMBER 2461/MPLS083737S4	8. PROJECT COST (\$000) 38,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			01-JUL-16
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2017			15%
* (d) Date 35% Designed			01-MAR-17
(e) Date Design Complete			01-SEP-17
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			2,280
(b) All Other Design Costs			1,140
(c) Total			3,420
(d) Contract			2,850
(e) In-house			570
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			20 MAR
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
CLASSROOM FURNISHINGS	3400	2019	400
DINING FURNISHINGS	3400	2019	1,284
AUTOMATED DATA PROCESSING	3400	2019	109

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20160930				
<b>3. INSTALLATION AND LOCATION</b> Joint Base San Antonio - Fort Sam Houston TEXAS				<b>4. COMMAND</b> AIR EDUCATION AND TRAINING COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 0.86				
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>		<b>TOTAL</b>	
		<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>		<b>CIVILIAN</b>
a. AS OF	30-Sep-16	2590	6169	4613	775	5827	60	169	1559	4980	<b>26,742</b>
b. END FY	2022	2758	5959	5629	897	4686	55	612	8179	5989	<b>34,764</b>
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE		30,929									
b. INVENTORY TOTAL AS OF		30-Sep-16									2,935,802
c. AUTHORIZATION NOT YET IN INVENTORY											0
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2018)											18,500
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)											0
f. REMAINING DEFICIENCY											130,200
g. GRAND TOTAL											<b>3,084,502</b>
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)</b>											
a. CATEGORY											
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>				<b>(3) SCOPE</b>			<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>	
722-351	Camp Bullis Dining Facility				3,410 SM			18,500		(1) START (2) COMPLETE Design/Build	
<b>TOTAL</b>								<b>18,500</b>			
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022)</b>											
<b>FUTURE PROJECTS TOTAL</b>											
										<b>0</b>	
<b>R&amp;M UNFUNDED REQUIREMENT (\$M)</b>											
										<b>TOTAL 0.3</b>	
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
The 502nd Air Base Wing (ABW) is the host wing for Joint Base San Antonio (JBSA) which is comprised of three primary locations; JBSA-Lackland, JBSA-Randolph, JBSA-Fort Sam Houston as well as eight other operating locations. The 502 ABW provides installation support services to more than 200 Department of Defense mission partners who are responsible for a variety of missions to include; training, flying, cyber, intelligence and health care.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022)</b>											
a. Air Pollution											
b. Water Pollution											
c. Occupational Safety and Health											
d. Other Environmental											
<b>OUTSTANDING DEFICIENCIES TOTAL</b>										<b>0</b>	

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO CAMP BULLIS TRAINING ANNEX SITE # 1 TEXAS		4. PROJECT TITLE CAMP BULLIS DINING FACILITY			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 722-351	7. RPSUID/PROJECT NUMBER 4236/CYRB205940	8. PROJECT COST (\$000) 18,500		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					11,878
AIRMAN DINING HALL		SM	3,410	3,415	( 11,645 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 233 )
SUPPORTING FACILITIES					4,001
UTILITIES		LS			( 876 )
SITE IMPROVEMENTS		LS			( 383 )
PAVEMENTS		LS			( 356 )
COMMUNICATIONS		LS			( 258 )
DEMOLITION		SM	4,594	225	( 1,031 )
RELOCATE WAREHOUSE		SM	465	2,359	( 1,097 )
SUBTOTAL					15,879
CONTINGENCY (5.0%)					794
TOTAL CONTRACT COST					16,673
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					950
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					635
TOTAL REQUEST					18,259
TOTAL REQUEST (ROUNDED)					18,500
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					800
10. Description of Proposed Construction: Construct a dining facility for 1300 to 1500 personnel at Joint Base San Antonio (JBSA) - Camp Bullis and relocate an existing warehouse that is in the footprint of the dining facility. Construction includes reinforced concrete foundations, structural steel frame with split faced concrete masonry unit veneer and a standing seam metal roof. The project includes utilities, site improvements, pavements, communications infrastructure and all other work necessary to make complete and useable facilities. The project will demolish 17 buildings (4,594 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 20 Tons					
11. Requirement: 3410 SM Adequate: 0 SM Substandard: 3344 SM					
<u>PROJECT:</u> Joint Base San Antonio - Camp Bullis Dining Facility (Current Mission)					
<u>REQUIREMENT:</u> The US Air Force is responsible for providing meal service to JBSA - Camp Bullis in support of a joint field training mission and must be able to provide meals for 1300 to 1800 Airmen, Soldiers, Sailors and Marines during 90 minute meal periods. Primary training missions supporting by JBSA - Camp Bullis include the Air Force Security Forces School, the Medical Education and Training Campus Field					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO CAMP BULLIS TRAINING ANNEX SITE # 1 TEXAS			4. PROJECT TITLE CAMP BULLIS DINING FACILITY	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  722-351	7. RPSUID/PROJECT NUMBER  4236/CYRB205940	8. PROJECT COST (\$000)  18,500	
<p>Training Site, the Air Force Combat Convoy Course, the Live Tissue Training Site, and Interrogation and Detention Training. A single consolidated dining facility, which will optimize dining operations across JBSA Camp Bullis, will also include a food preparation area to support the transport of approximately 600 field meals to students across the training ranges. Additionally, an existing warehouse is located in the site of the new dining facility and must be relocated by this project.</p> <p><u>CURRENT SITUATION:</u> There are four facilities currently used to support feeding operations for JBSA - Camp Bullis. These wooden facilities were constructed in the 1930s and have far exceeded their intended design lifespan. Two facilities have been issued a Fire Safety Deficiency Code 1 for fire safety issues. In addition to being in a state of disrepair, the facilities are severely undersized and provide approximately one half the space necessary to support feeding operations based on training throughput. Due to lack of adequate space inside existing facilities, field feeding containers used to deliver food to personnel in the field must be washed outdoors. Exposure of the containers to the outside elements risk food contamination as the containers have potential to come in contact with insects and other wildlife. Given students are in a training environment, they do not have the means to dine off-base. There are no other food service options on JBSA - Camp Bullis.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The lack of adequate dining capacity will continue to adversely affecting training. The numbers of classes and class sizes are limited by on-site dining capability. Work arounds and other stop gaps measures, to include Meals Ready to Eat (MRE) in the place of hot meals even when not training on the range, are ineffective as a long term option. If this project is not provided the installation will have no other course of action but to continue to feed the assigned personnel in existing substandard facilities that lack the necessary sanitary conditions for food preparation.</p> <p><u>ADDITIONAL:</u> This project meets the scope and criteria of Air Force Manual 32-1084, "Facility Requirements." A preliminary analysis of reasonable alternatives evaluating status quo, repair and new construction was accomplished. This analysis indicated new construction is the most cost effective option to meet mission requirements. A formal economic analysis is being developed. 502d Air Base Wing Base Civil Engineer: (210) 671-2977. JBSA - Camp Bullis Dining Facility: 3,410 SM = 36,705 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION JOINT BASE SAN ANTONIO CAMP BULLIS TRAINING ANNEX SITE # 1 TEXAS		4. PROJECT TITLE CAMP BULLIS DINING FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 722-351	7. PROJECT NUMBER 4236/CYRB205940	8. PROJECT COST (\$000) 18,500
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			555
(4) Construction Contract Award			18 AUG
(5) Construction Start			18 SEP
(6) Construction Completion			20 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
DINING FACILITY EQUIPMENT	3080	2019	400
DINING FACILITY FURNISHINGS	3400	2019	400



1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH			4. PROJECT TITLE UTTR CONSOLIDATED MISSION CONTROL CENTER		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 317-315	7. RPSUID/PROJECT NUMBER 2349/KRSM123009	8. PROJECT COST (\$000) 28,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					17,950
CONSOLIDATED MISSION CONTROL CENTER (317-315)		SM	4,795	3,501	( 16,788 )
REPEATER STATION SITE (134-335)		SM	56	14,457	( 810 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 352 )
SUPPORTING FACILITIES					7,698
UTILITIES		LS			( 1,421 )
PAVEMENTS		LS			( 636 )
SITE IMPROVEMENTS		LS			( 377 )
COMMUNICATION SUPPORT		LS			( 3,195 )
DEMOLITION		SM	4,117	406	( 1,674 )
EMERGENCY BACKUP POWER GENERATOR		LS			( 396 )
SUBTOTAL					25,648
CONTINGENCY (5.0%)					1,282
TOTAL CONTRACT COST					26,931
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					1,535
TOTAL REQUEST					28,466
TOTAL REQUEST (ROUNDED)					28,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 5,850 )
10. Description of Proposed Construction: Construct a Mission Control Center utilizing economical design and construction methods to accommodate the mission of the facility. Facilities will be constructed with reinforced concrete footings, foundation, structural steel frame with insulated split-face concrete masonry unit veneer walls and an insulated standing seam metal roof. The project includes classified storage, communications infrastructure, air conditioning, space for uninterruptable power systems, emergency backup power generator, microwave communications by means of a tower at least 50' high, intrusion detection, fire detection/suppression, utilities, area lighting, site improvements, fencing and pavement, and all other required supporting facilities for a complete and usable facility. The project includes demolition of three facilities (4117 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Antiterrorism/force protection requirements per UFC 4-010-01. Air Conditioning: 130 Tons					
11. Requirement: 8449 SM Adequate: 3055 SM Substandard: 4117 SM PROJECT: Utah Test and Training Range (UTTR) Consolidated Mission Control Center (Current Mission) REQUIREMENT: A consolidated Mission Control Center with state-of-the-art equipment					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH			4. PROJECT TITLE UTTR CONSOLIDATED MISSION CONTROL CENTER	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  317-315	7. RPSUID/PROJECT NUMBER  2349/KRSM123009	8. PROJECT COST (\$000)  28,000	
<p>is needed at Hill AFB, UT to support ever increasing numbers and types of classified aircraft weapons testing and training operations conducted at the UTTR, including test and training missions of the new generation of composite fighter aircraft. A new facility built to current Air Force standards will enable UTTR much greater flexibility in providing air traffic control services and in monitoring multiple simultaneous aircraft test and training exercises on a variety of classification levels. A new facility will also provide increased capability for necessary post-mission test evaluation processes. This increased capability will verify the reliability and accuracy of a weapon system before it is deployed. A new facility will also increase the combat readiness of fighter pilots participating in exercises at the UTTR and better prepare them for deployment to war zones overseas. A new facility, built to the current standard of at least two control rooms will support current and continuous mission control room upgrades without curtailment of weapons testing and training.</p> <p><b>CURRENT SITUATION:</b> For the last 38 years, air traffic control and mission control operations for the UTTR have been conducted in two dilapidated WWII era warehouses, one of which was converted to an air traffic control center, and the other converted to the Mission Control Center (MCC). Both facilities are structurally deficient for proper security systems as mandated by current regulations. The mission dictates the MCC and Air Traffic Control functions be collocated because much of the equipment is interrelated. The existing main MCC, lacks the space for the required redundancy of two control rooms. Roof leaks from failing asbestos panel roofing systems, that are costly to remediate and replace, risk destruction of air traffic control equipment, and risk termination of air operations over the UTTR. Aging HVAC systems in both facilities are inadequate to maintain temperatures required to cool computer systems that support mission operations. MCC consoles, raised computer flooring, lighting, electrical wiring, and all under floor data cables are in poor condition due to age and need to be replaced. Upgrades and modifications to systems components are also needed, but repairs can only be done by shutting down the MCC. However, shutting down the MCC will do irreparable harm to the mission. There is also inadequate electrical capacity and internal electrical system infrastructure to support the higher technologically based equipment necessary to monitor fifth generation fighter test and evaluation.</p> <p><b>IMPACT IF NOT PROVIDED:</b> Without this facility, HQ UTTR will be severely limited in its ability to monitor weapons systems testing and training for fifth generation fighter aircraft. Those who pilot these aircraft will not be able to receive the required training that will ensure mission success when they are deployed. Testing future weapons systems with advanced technologies will be beyond the capability of current facilities and equipment. HQ UTTR operations will continue to be delayed by workarounds due to the daily facility maintenance issues associated with operating in aging dilapidated buildings that were never intended for the purpose they are now serving.</p> <p><b>ADDITIONAL:</b> This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." An economic analysis of reasonable alternatives for satisfying the requirement (status quo, facility repair/modification and new construction) was accomplished. This analysis indicates new construction is the</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH			4. PROJECT TITLE UTTR CONSOLIDATED MISSION CONTROL CENTER	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  317-315	7. RPSUID/PROJECT NUMBER  2349/KRSM123009	8. PROJECT COST (\$000)  28,000	
<p>most cost effective option that will meet operational requirements. 75th Air Base Wing Civil Engineer: 801-777-7505. Consolidated Mission Control Center: 4795 SM = 51,613 SF; Repeater Station Site: 56 SM = 599 SF.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH		4. PROJECT TITLE UTTR CONSOLIDATED MISSION CONTROL CENTER	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 317-315	7. PROJECT NUMBER 2349/KRSM123009	8. PROJECT COST (\$000) 28,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			01-MAR-17
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2017			65%
* (d) Date 35% Designed			01-SEP-17
(e) Date Design Complete			01-MAY-18
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			1,740
(b) All Other Design Costs			870
(c) Total			2,610
(d) Contract			2,175
(e) In-house			435
(4) Construction Contract Award			18 AUG
(5) Construction Start			18 SEP
(6) Construction Completion			20 AUG
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
TEST & EVALUATION EQUIPMENT	3080	2018	5,000
COMMUNICATIONS EQUIPMENT	3400	2018	250
FURNISHINGS	3400	2018	200
UNINTERRUPTED POWER SUPPLY	3080	2018	150
COMMANDERS TACTICAL TERMINAL	3080	2018	250



1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION FRANCIS E WARREN AIR FORCE BASE F E WARREN AFB SITE # 1 WYOMING		4. PROJECT TITLE CONSOLIDATED HELO/TRF OPS/AMU AND ALERT FACILITY		
5. PROGRAM ELEMENT 12110	6. CATEGORY CODE 141-753	7. RPSUID/PROJECT NUMBER 1833/GHLN983001A	8. PROJECT COST (\$000) 62,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
HELICOPTER OPERATIONS COMPLEX				43,773
HELICOPTER/TRF OPERATIONS FACILITY (141-753)	SM	3,437	3,621	( 12,445 )
HELICOPTER/TRF ALERT FACILITY (141-753)	SM	1,027	3,604	( 3,701 )
AIRCRAFT ALERT HANGAR (3 BAY) (141-181)	SM	1,598	3,592	( 5,740 )
AIRCRAFT MAINTENANCE UNIT (AMU) (221-175)	SM	1,161	3,190	( 3,704 )
AIRCRAFT MAINTENANCE HANGAR (9 BAY) (211-111)	SM	4,601	2,661	( 12,243 )
TACTICAL ALERT VEHICLE FACILITY (853-101)	SM	300	2,173	( 652 )
AIRCRAFT SIMULATOR FACILITY (171-212)	SM	420	4,752	( 1,996 )
AIRFIELD CRASH/RESCUE STATION (141-101)	SM	670	3,632	( 2,433 )
SUSTAINABILITY AND ENERGY MEASURES	LS			( 858 )
SUPPORTING FACILITIES				12,127
AIRFIELD PAVEMENTS AND LIGHTING	LS			( 6,940 )
DRIVEWAY / PARKING LOT	LS			( 319 )
UTILITIES	LS			( 3,251 )
PRIVATIZED UTILITY CONNECTION FEE (ELECT)	LS			( 20 )
COMMUNICATIONS	LS			( 410 )
BACKUP GENERATOR	LS			( 200 )
PASSIVE FORCE PROTECTION MEASURES	LS			( 987 )
SUBTOTAL				55,900
CONTINGENCY (5.0%)				2,795
TOTAL CONTRACT COST				58,695
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				3,346
TOTAL REQUEST				62,040
TOTAL REQUEST (ROUNDED)				62,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				( 1,238 )
10. Description of Proposed Construction: Construct a new complex to include Helicopter Squadron Operations, Tactical Response Force (TRF) Alert Crew Facility, Alert Aircraft Shelter, Aircraft Maintenance Unit (AMU), Aircraft Maintenance Shelter, Aircraft Simulator complex to include a satellite Fire Station utilizing conventional design and construction methods to accommodate mission requirements in support of the Minuteman III (MM III) Intercontinental Ballistic Missile (ICBM) weapons system. Facilities will be constructed with concrete foundations, structural steel frame, a combination of concrete masonry unit and prefinished metal panels exterior walls and a standing seam metal roof. Associated site improvements shall include new taxiways, runway, helipads, associated airfield lighting and all other work necessary to make a complete and usable facility. An O&M demolition project (GHLN091045C) has been developed to demolish existing facilities used for UH-1N operations (8872 SM). This project will comply with DoD				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION FRANCIS E WARREN AIR FORCE BASE F E WARREN AFB SITE # 1 WYOMING		4. PROJECT TITLE CONSOLIDATED HELO/TRF OPS/AMU AND ALERT FACILITY		
5. PROGRAM ELEMENT  12110	6. CATEGORY CODE  141-753	7. RPSUID/PROJECT NUMBER  1833/GHLN983001A	8. PROJECT COST (\$000)  62,000	
<p>antiterrorism/force protection requirements per Unified Facilities Criteria (UFC) and be designed as permanent construction in accordance with the DoD UFC 1-200-01, General Building Requirements; UFC 1-200-02, High Performance and Sustainable Building Requirements, and will comply with DoD antiterrorism/force protection requirements as defined in UFC 4-010-01.</p> <p>Air Conditioning: 75 Tons</p> <p>11. Requirement: 13214 SM Adequate: 0 SM Substandard: 8872 SM</p> <p><b>PROJECT:</b> CONSOLIDATE HELO/TRF OPS/AMU AND ALERT FACILITY (NEW MISSION)</p> <p><b>REQUIREMENT:</b> An adequately sized and configured integrated helicopter operations tactical response alert facility is needed to provide proper command and control, alert, maintenance, and fueling capabilities for helicopter-capable security operations providing coverage to remote ICBM missile alert and launch facilities. This is to be a consolidated facility that will become the main control point for all unit flight and flying training tasks including planning, briefing, administration, alert response, life support system, aircraft maintenance, crew equipment storage and issue. The complex must provide collocation of the squadron operations facility and alert crew sleeping quarters with the aircraft to minimize crew response times and enhance rescue/security team effectiveness. Response time is critical when providing security for nuclear weapons transports and conducting search and security, rescue/civil aid missions. The complex must have flight line visibility for control of ground traffic and aircraft storage must be heated for rapid response during prolonged and often extreme weather conditions. F. E. Warren Air Force Base's 37th Helicopter Flight (37 HF), 90th Tactical Response Force Squadron directly supports ICBM missile alert and launch facility site security by providing rapid response/transport of Security Forces personnel and equipment from the base to the missile fields spread over three states.</p> <p><b>CURRENT SITUATION:</b> The 37 HF directly supports MM III ICBM missile alert and launch facility site security and missile convoy operations covering 9,600 square miles. Additionally, the 37 HF conducts search and rescue missions throughout Wyoming, Colorado, and Nebraska for both military and civil authorities. Helicopter operations are currently conducted from a facility constructed in 1941 and later converted for use as an Atlas ICBM maintenance hangar in 1958. This structure is laden with asbestos-containing materials, lead based paint, and is serviced with an aged and failing utilities infrastructure. In addition, it is not properly configured to accommodate the assigned UH-1N helicopters and is completely inadequate in size and configuration for the replacement helicopters anticipated for deployment to FE Warren AFB. The structure's hangar doors and interior layout (structural support columns) will not allow for the parking and maintenance of the replacement helicopter airframes. None of the proposed replacement airframes will fit in the current facility due aircraft dimensions, rotor head diameter, and blade configuration (2 vs. 4) without impractical mechanical disassembly. If this building continues to be used for helicopter operations, a major MILCON renovation project will be required. The renovation project cost has been estimated at over 75% of the replacement cost of a similar-sized facility. In addition to its inferior condition and poor layout, the current facility affords few provisions for</p>				

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3. INSTALLATION, SITE AND LOCATION FRANCIS E WARREN AIR FORCE BASE F E WARREN AFB SITE # 1 WYOMING			4. PROJECT TITLE CONSOLIDATED HELO/TRF OPS/AMU AND ALERT FACILITY	
5. PROGRAM ELEMENT  12110	6. CATEGORY CODE  141-753	7. RPSUID/PROJECT NUMBER  1833/GHLN983001A	8. PROJECT COST (\$000)  62,000	
<p>squadron operations and none for around-the-clock alert readiness required for current UH-1N and TRF operations or future operations with the UH-1N replacement aircraft and a co-located TRF. The current structure has neither sleeping quarters nor food preparation facilities and is only partially adequate for the storage, maintenance and issue of life support equipment and other provisions needed by flight crews and the TRF.</p> <p><b>IMPACT IF NOT PROVIDED:</b> Without a new facility that combines Helicopter Squadron Operation and Tactical Response Force facilities 24-hour alert responses to security emergencies to the nation's strategic ground-based deterrent will be impeded and expediciencies of consolidation will not be achieved. Further F. E. Warren AFB will be unable to properly bed down new helicopters proposed to replace the UH-1N airframes. The existing UH-1N fleet is Vietnam vintage and does not meet the required Key Performance Parameters for range, speed, or cargo capacity required to support the Tactical Response Force and ICBM Security Concept of Operations detailed in DoD S-5210.41-M-V1, V2, V3, and Security Policy for Protecting Nuclear Weapons, dated 13 July 2009. Without this project, existing operations will continue to progressively degrade as facilities and utility systems age and are increasingly unable to support operational requirements, and will become non-operational with delivery of replacement aircraft prior to funding and execution of this requirement. The ability to expeditiously deploy security personnel under updated security criteria of nuclear weapons transports and execution of search and rescue/civil aid missions will be compromised. Continued reliance on insufficient aircraft maintenance and squadron operations facilities could ultimately result in the inability to re-secure a nuclear resource if taken by force, resulting in a grave threat to national security.</p> <p><b>ADDITIONAL:</b> This project meets applicable criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was performed. Only two options, renovation and new construction, meet operational requirements. The renovation project exceeds 75% of the replacement of a similar sized facility, resulting in new construction being the most viable option. A formal economic analysis is in progress. 90th Missile Wing Base Civil Engineer: 307-773-3600. Helicopter/TRF Operations Facility: 3437 SM = 36,996 SF; Helicopter/TRF Alert Facility: 1027 SM = 11,055 SF; Aircraft Alert Hangar (3 Bay): 1598 SM = 17,201 SF; Aircraft Maintenance Unit: 1161 SM = 12,497 SF; Aircraft Maintenance Hangar: 4601 SM = 49,525 SF; Tactical Alert Vehicle Facility: 300 SM = 3229 SF; Aircraft Simulator Facility: 420 SM = 4521 SF; Airfield Crash/Rescue Station: 670 SM = 7212 SF.</p> <p><b>JOINT USE CERTIFICATION:</b> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION FRANCIS E WARREN AIR FORCE BASE F E WARREN AFB SITE # 1 WYOMING		4. PROJECT TITLE CONSOLIDATED HELO/TRF OPS/AMU AND ALERT FACILITY	
5. PROGRAM ELEMENT 12110	6. CATEGORY CODE 141-753	7. PROJECT NUMBER 1833/GHLN983001A	8. PROJECT COST (\$000) 62,000
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) All Other Design Costs 1,860</p> <p>(4) Construction Contract Award 18 FEB</p> <p>(5) Construction Start 18 MAR</p> <p>(6) Construction Completion 20 MAR</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project provided from other appropriations:</p>			
EQUIPMENT NOMENCLATURE FURNISHINGS, FIXTURES & EQUIP	PROCURING APPRC 3400	FISCAL YEAR APPROPRIATED OR REQUESTED 18	COST (\$000) 1,238

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION WORLDWIDE LOCATION		4. PROJECT TITLE KC-46A MAIN OPERATING BASE 4			
5. PROGRAM ELEMENT 41221	6. CATEGORY CODE 141-753	7. RPSUID/PROJECT NUMBER /AMC180001	8. PROJECT COST (\$000) 269,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					200,000
KC-46A VARIOUS FACILITIES, MOB#4		LS			(200,000)
SUPPORTING FACILITIES					42,000
SUPPORTING COSTS		LS			(42,000)
SUBTOTAL					242,000
CONTINGENCY (5.0%)					12,500
TOTAL CONTRACT COST					254,500
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					14,500
TOTAL REQUEST					269,000
TOTAL REQUEST (ROUNDED)					269,000
10. Description of Proposed Construction: Construct various KC-46A facilities with reinforced concrete foundations and floor slabs, masonry walls, metal roof systems, fire detection/suppression, utilities, pavements, site improvements, communication support, and all other necessary support to ensure complete and usable facilities. The construction of concrete parking apron will include all necessary drainage systems to support the new pavement, repairs to adjacent existing apron pavement to restore life cycle commensurate with new pavement, provide new fuel outlets, install apron lighting to meet standards, and upgrade and remove/replace all utility infrastructure as necessary. The facilities will be constructed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
11. Requirement: SM Adequate: SM Substandard: SM PROJECT: KC-46A Main Operating Base 4 (New Mission)  REQUIREMENT: The Air Force has not designated a location for the MOB#4 for the new KC-46A Tanker Aircraft. This DD Form 1391 will be replaced with location specific DD Forms 1391 prior to the Congressional MILCON committee marks. The first aircraft is scheduled for delivery during the second quarter of FY20. The basing selection for MOB#4 is underway.  Facility construction required to support the beddown of KC-46A includes hangar spaces (Fuel Cell, Corrosion Control with wash capability) and two general purpose maintenance bays with traditional backshops (wheel and tire, avionics, engine parts and storage, etc.), weapon system trainers including Boom Operator Weapon System Trainer and part-task trainers, construct new/alter aircraft parking ramp to include hydrant fueling at aircraft parking spots and all necessary					

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3. INSTALLATION, SITE AND LOCATION WORLDWIDE LOCATION			4. PROJECT TITLE KC-46A MAIN OPERATING BASE 4	
5. PROGRAM ELEMENT  41221	6. CATEGORY CODE  141-753	7. RPSUID/PROJECT NUMBER  /AMC180001	8. PROJECT COST (\$000)  269,000	
<p>drainage and apron lighting systems as required. Repair adjacent existing apron pavement to restore life cycle commensurate with new pavement. Demolish buildings with associated utilities and pavements. Install, upgrade, and remove/replace all utility infrastructure as necessary.</p> <p>CURRENT SITUATION: KC-46A aircraft deliveries are scheduled to begin at MOB #4 in second quarter FY20.</p> <p>IMPACT IF NOT PROVIDED: The AF will be unable to provide timely aircrew training necessary to begin operation of the new KC-46A aircraft. The lack of this facility and its equipment greatly increases training costs by requiring the use of aircraft, which would otherwise be assigned to operational missions, for on-the-job training. This would place active KC-46A assets at higher risk of damage due to training accidents with on-the-job training resulting in higher fuel costs to the AF. Additionally aircraft maintenance would need to be performed on the ramp subject to the weather elements.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084 "Facility Requirements". An analysis of reasonable alternatives to meet this requirement (status quo, renovation, new construction) for each project will be accomplished after the basing decision is final. A certificate of exception will be prepared. Sustainable principles will be integrated into design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive orders. MAJCOM POC: 618-229-0765.</p> <p>JOINT USE CERTIFICATON: This space can be used by other airframes on an as "available basis"; however the scope of the project is based on Air Force Requirements.</p>				

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1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION RAAF BASE DARWIN  AUSTRALIA			4. PROJECT TITLE APR - BULK FUEL STORAGE TANKS		
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  124-135	7. RPSUID/PROJECT NUMBER  /PAF160600	8. PROJECT COST (\$000)  76,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					49,042
BULK STORAGE TANKS (124-135)		CM	15,900	1,905	( 30,290 )
PETOLEUM OPERATIONS BUILDING (121-111)		SM	255	7,162	( 1,826 )
POL PUMPHOUSE (125-977)		GM	3,600	1,857	( 6,685 )
FILTER BUILDING (125-977)		GM	4,200	1,194	( 5,013 )
LIQUID FUEL TRUCK FILL STAND (126-925)		OL	2	1,066,500	( 2,133 )
LIQUID FUEL STAND, UNLOADING (126-926)		OL	6	355,500	( 2,133 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 962 )
SUPPORTING FACILITIES					19,235
UTILITIES		LS			( 7,206 )
SITE IMPROVEMENTS		LS			( 4,480 )
PAVEMENT		LS			( 4,921 )
COMMUNICATIONS		LS			( 430 )
BACKUP GENERATOR		LS			( 440 )
REPLACE LIQUID OXYGEN FACILITY		SM	568	1,572	( 893 )
ENVIRONMENTAL REMEDIATION		LS			( 300 )
ARCHAEOLOGICAL MONITORING		LS			( 75 )
AUSTRALIAN COMMISSIONING		LS			( 490 )
SUBTOTAL					68,277
CONTINGENCY (5.0%)					3,414
TOTAL CONTRACT COST					71,691
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					4,660
TOTAL REQUEST					76,350
TOTAL REQUEST (ROUNDED)					76,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 75 )
10. Description of Proposed Construction: Construct two 7,950 cubic meter (50,000 barrels) cut and cover bulk fuel storage tanks, automated tank gauging system, two pump houses, fuel filter building, petroleum operations building, as well as fuel filling and unloading stands to support USAF missions at Royal Australian Air Force Base (RAAF) Darwin. This project also includes relocation of a RAAF owned Liquid Dry Breathing Oxygen facility. Vertical facility construction will consist of reinforced concrete slab on grade and steel rigid frames with metal purlins and girts to frame the exterior roof and walls. This project includes modification of the existing fire protection water system to support operation of USAF fuel facilities. All utilities, site improvements, pavements, communications infrastructure, backup generator and other work necessary to provide complete and usable facilities is included in the project. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAAF BASE DARWIN  AUSTRALIA			4. PROJECT TITLE APR - BULK FUEL STORAGE TANKS	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  124-135	7. RPSUID/PROJECT NUMBER  /PAF160600	8. PROJECT COST (\$000)  76,000	
<p>and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Antiterrorism/force protection requirements per UFC 4-010-01. The project will comply with applicable criteria contained in Australian Building Code and Manual of Fire Protection to enable interoperability of facilities with local fire services.</p> <p>Air Conditioning: 2 Tons</p>				
<p>11. Requirement: 21896 CM Adequate: 5996 CM Substandard: 0 CM</p> <p>PROJECT: Asia Pacific Resiliency (APR) Bulk Fuel Storage Tanks (New Mission)</p> <p>REQUIREMENT: The United States Air Force (USAF) requires 15,900 cubic meters of fuel storage and supporting infrastructure at RAAF Darwin to meet mission requirements of USAF KC-10 tanker aircraft. This requirement was determined based on fuel load per mission, missions per day, and rate of fuel resupply at RAAF Darwin. Supporting infrastructure includes a petroleum operations facility with fuels laboratory, a filter building required for aviation fuel to be properly filtered before entering or leaving the fuel storage tanks, two pump houses, and fill stands for loading and unloading fuel. Additionally, siting of fuel facilities displaces a RAAF owned Liquid Dry Breathing Oxygen facility which must be relocated by this project.</p> <p>CURRENT SITUATION: RAAF Darwin does not have the necessary aircraft fuel storage capacity to support proposed USAF KC-10 missions.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, the fuel storage capacity at RAAF Darwin will not be adequate to support USAF aircraft. The USAF will not have the capability to meet bilateral mission requirements at RAAF Darwin. The inability to provide fuel to USAF aircraft would drastically decrease power projection and global reach capabilities in support of US-Australia bilateral exercises and theater security operations in the Asia-Pacific region.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." Adequate fuel storage and dispensing infrastructure to support USAF missions does not exist on RAAF Darwin and as such, new construction is the only viable alternative which meets mission requirements. An Economic Analysis Waiver has been obtained. Supporting facility costs are approximately 39 percent of primary facility cost due to substantial utility construction necessary to support fuel storage and dispensing operations. Base Civil Engineer: 808-448-2459. Fuel Storage: 15,900 CM = 100,000 barrels; Petroleum Operations Building: 255 SM = 2,750 SF; Liquid Oxygen Facility: 568 SM = 6114 SF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: AUSI-DOLLAR .74</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an as available basis. However, the scope of the project is based on Air Force Requirement.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION RAAF BASE DARWIN  AUSTRALIA		4. PROJECT TITLE APR - BULK FUEL STORAGE TANKS	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 124-135	7. PROJECT NUMBER /PAF160600	8. PROJECT COST (\$000) 76,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			01-AUG-16
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2017			95%
* (d) Date 35% Designed			01-JUL-17
(e) Date Design Complete			01-MAR-18
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			4,560
(b) All Other Design Costs			2,280
(c) Total			6,840
(d) Contract			5,700
(e) In-house			1,140
(4) Construction Contract Award			18 AUG
(5) Construction Start			18 SEP
(6) Construction Completion			20 DEC
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE, FIXTURES & EQMT	3400	19	50
COMMUNICATIONS EQUIPMENT	3400	19	25

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20160930		
<b>3. INSTALLATION AND LOCATION</b> UNSPECIFIED LOCATION COMMONWEALTH OF NORTHERN MARIANA ISLANDS				<b>4. COMMAND</b> PACIFIC AIR FORCES			<b>5. AREA CONSTRUCTION COST INDEX</b> 2.64		
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>		<b>(2) STUDENTS</b>		<b>(3) SUPPORTED</b>		<b>TOTAL</b>	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF	30-Sep-16	N/A	See Note 1						0
b. END FY	2022	N/A						0	
<b>7. INVENTORY DATA (\$000)</b>									
a. TOTAL ACREAGE		0							
b. INVENTORY TOTAL AS OF		30-Sep-16							0
c. AUTHORIZATION NOT YET IN INVENTORY									9,000
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2018)									12,900
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)									353,700
f. REMAINING DEFICIENCY									0
g. GRAND TOTAL									375,600
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)</b>									
a. CATEGORY									
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>			<b>(3) SCOPE</b>		<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>	
922-274	APR - Land Acquisition			142 HA		12,900		(1) START (2) COMPLETE N/A	
<b>TOTAL</b>						12,900			
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019-FY2022)</b>									
218-712	APR - Maintenance Support Facility			652 SM		3,700			
112-211	APR - Cargo Pad with Taxiway Extension			84,570 SM		39,000			
113-321	APR - Airfield Development with Apron/Taxiway			230,010 SM		202,000			
124-135	APR - Fuel Tanks with Pipeline/Hydrant System			35,000 CM		109,000			
<b>FUTURE PROJECTS TOTAL</b>						353,700			
<b>R&amp;M UNFUNDED REQUIREMENT (\$M)</b>						<b>TOTAL</b>		0.0	
<b>10. MISSION OR MAJOR FUNCTIONS</b>									
The USAF proposes to improve infrastructure and military training facilities in support of Air Operations for divert, training exercises, and natural disaster response in the Commonwealth of Northern Mariana Islands.									
Note 1: No personnel will be permanently assigned to this location.									
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022)</b>									
a. Air Pollution									
b. Water Pollution									
c. Occupational Safety and Health									
d. Other Environmental									
<b>OUTSTANDING DEFICIENCIES TOTAL</b>						0			

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION TINIAN  NORTHERN MARIANA ISLANDS		4. PROJECT TITLE APR - LAND ACQUISITION			
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  911-146	7. RPSUID/PROJECT NUMBER  /PAF160300B	8. PROJECT COST (\$000)  12,900		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					19,616
LAND ACQUISITION		HA	142	138,140	( 19,616 )
SUPPORTING FACILITIES					0
SUBTOTAL					19,616
CONTINGENCY (5.0%)					981
TOTAL CONTRACT COST					20,597
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)					1,277
TOTAL REQUEST					21,874
TOTAL REQUEST (ROUNDED)					21,900
10. Description of Proposed Construction: Acquires not more than 142 hectares of land (in fee or long-term lease) for the construction of Air Force military training facilities and infrastructure in support of air operations for divert, exercises, and natural disaster response. Land parcels are required to be acquired from the Commonwealth of Northern Mariana Islands (CNMI) through the Commonwealth Port Authority. Land acquisition is to be accomplished in accordance with DoD Instruction 4165.71, Real Property Acquisition.					
11. Requirement: 142 HA    Adequate: 0 HA    Substandard: 0 HA PROJECT: Asia Pacific Resiliency (APR) - Land Acquisition (New Mission) REQUIREMENT: The Air Force will acquire land either in fee or by long-term lease for the construction of Air Force military training facilities and infrastructure in support of Air Operations for divert, exercises, and natural disaster response in the CNMI. The Air Force intends to acquire an interest in this land for a minimum of 25 years. The Air Force is prepared to lease the property at a cost that comports to the policy stated in the 1976 Covenant between the government of CNMI and the United States and will acquire only the minimum real property interest necessary to meet the mission requirement. The Air Force is willing to purchase this land by fee if the CNMI government is willing to sell it. CURRENT SITUATION: The Air Force, in coordination with the CNMI government, has decided to locate the Divert and Exercise Mission at Tinian, CNMI. Acquisition of non-Federal land in fee or by long-term lease is required to construct the operational and support infrastructure necessary to execute the Divert and Exercise Mission. Existing federally-leased land in CNMI does not include parcels required for this mission. IMPACT IF NOT PROVIDED: Without securing rights for the needed land parcels, none of the projects that support the Divert and Exercise Mission within CNMI can be constructed. Initial Air Operations capability cannot be achieved until these facilities are constructed, depriving the Air Force of this much-needed operational capability.					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE																
3. INSTALLATION, SITE AND LOCATION TINIAN  NORTHERN MARIANA ISLANDS			4. PROJECT TITLE APR - LAND ACQUISITION																	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  911-146	7. RPSUID/PROJECT NUMBER  /PAF160300B	8. PROJECT COST (\$000)  12,900																	
<p>ADDITIONAL: This project was submitted to Congress (Project Number PAF160300) as part of the FY 2017 President's Budget Request, before a final location was announced. The scope contained all of the land needed for this requirement (142 hectares); however, the cost per acre of the land located at Tinian is higher than our original estimate at an "unspecified" location. Therefore, the FY 2018 President's budget includes:</p> <ul style="list-style-type: none"> <li>- Division B language that amends the FY 2017 National Defense Authorization Act (NDAA) to reflect Tinian as the location and a project cost \$21.9M.</li> <li>- A request for an FY 2018 appropriation (\$12.9M) to fully fund this project.</li> </ul> <table border="0"> <thead> <tr> <th style="text-align: left;">FY (\$M)</th> <th style="text-align: center;">Authorization</th> <th style="text-align: center;">Authorized of Appropriation</th> <th style="text-align: center;">Appropriation</th> </tr> </thead> <tbody> <tr> <td>2017 Enacted</td> <td style="text-align: center;">\$9.0</td> <td style="text-align: center;">\$9.0</td> <td style="text-align: center;">\$9.0</td> </tr> <tr> <td>2018 Request</td> <td style="text-align: center;">*</td> <td style="text-align: center;">\$12.9</td> <td style="text-align: center;">\$12.9</td> </tr> <tr> <td>Total</td> <td style="text-align: center;">\$21.9</td> <td style="text-align: center;">\$21.9</td> <td style="text-align: center;">\$21.9</td> </tr> </tbody> </table> <p>* FY 2018 Division B requests full cost of \$21.9M at Tinian.</p> <p>An Economic Analysis (EA) was performed by the Navy IAW with Department of Defense guidance. The Navy prepared a Cost Estimate to more fully inform the fair market value determination prior to negotiations with CNMI. Base Civil Engineer: 808-449-3810. 142 hectares = 350 acres.</p> <p>HISTORY OF BASE BOUNDARY: Not applicable</p> <p>LONG TERM REAL ESTATE: Long-term Lease is required to support planned new construction.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>					FY (\$M)	Authorization	Authorized of Appropriation	Appropriation	2017 Enacted	\$9.0	\$9.0	\$9.0	2018 Request	*	\$12.9	\$12.9	Total	\$21.9	\$21.9	\$21.9
FY (\$M)	Authorization	Authorized of Appropriation	Appropriation																	
2017 Enacted	\$9.0	\$9.0	\$9.0																	
2018 Request	*	\$12.9	\$12.9																	
Total	\$21.9	\$21.9	\$21.9																	

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION TINIAN  NORTHERN MARIANA ISLANDS		4. PROJECT TITLE APR - LAND ACQUISITION	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 911-146	7. PROJECT NUMBER /PAF160300B	8. PROJECT COST (\$000) 12,900
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <p>(a) Date Design Started 01-FEB-18</p> <p>(b) Parametric Cost Estimates used to develop costs</p> <p>(c) Percent Complete as of 01 JAN 2017</p> <p>(d) Date 35% Designed 01-FEB-18</p> <p>(e) Date Design Complete 01-FEB-18</p> <p>(f) Energy Study/Life-Cycle analysis was/will be performed NO</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <p>(a) Production of Plans and Specifications 0</p> <p>(b) All Other Design Costs 0</p> <p>(c) Total 0</p> <p>(d) Contract 0</p> <p>(e) In-house 0</p> <p>(4) Construction Contract Award 18 FEB</p> <p>(5) Construction Start 18 FEB</p> <p>(6) Construction Completion 18 FEB</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>			

<b>1. COMPONENT</b> AIR FORCE			<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE (YYYYMMDD)</b> 20160930			
<b>3. INSTALLATION AND LOCATION</b> AVIANO AIR BASE ITALY						<b>4. COMMAND</b> UNITED STATES AIR FORCES IN EUROPE			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.33			
<b>6. PERSONNEL</b>			<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>TOTAL</b>
			<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	<b>OFFICER</b>	<b>ENLISTED</b>	<b>CIVILIAN</b>	
a. AS OF 30-Sep-16			304	3332	552	0	0	0	8	93	24	4,313
b. END FY 2022			304	3320	551	0	0	0	8	93	24	4,300
<b>7. INVENTORY DATA (\$000)</b>												
a. TOTAL ACREAGE			1,368									
b. INVENTORY TOTAL AS OF 30-Sep-16												2,539,771
c. AUTHORIZATION NOT YET IN INVENTORY												9,400
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2018)												27,325
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)												5,000
f. REMAINING DEFICIENCY												13,500
g. GRAND TOTAL												2,594,996
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)</b>												
a. CATEGORY												
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>					<b>(3) SCOPE</b>			<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>	
141-185	Guardian Angel Operations Facility					7,285 SM			27,325		(1) START	(2) COMPLETE
											12/16	09/17
<b>TOTAL</b>								27,325				
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022)</b>												
730-839 Area A1 Entry Control Point						334 SM			5,000			
<b>FUTURE PROJECTS TOTAL</b>								5,000				
<b>R&amp;M UNFUNDED REQUIREMENT (\$M)</b>								<b>TOTAL 9.1</b>				
<b>10. MISSION OR MAJOR FUNCTIONS</b>												
Conducts air and space combat and combat support operations in Europe's Southern Region. Maintains two F-16 fighter squadrons able to conduct regional and expeditionary operations under NATO, SACEUR or national tasking with conventional and non-conventional munitions. Maintains an air control squadron capable of air surveillance, control and communications. Provides command, control and support functions.												
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022)</b>												
a. Air Pollution												
b. Water Pollution												
c. Occupational Safety and Health												
d. Other Environmental												
<b>OUTSTANDING DEFICIENCIES TOTAL</b>								0				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION AVIANO AIR BASE AVIANO AIR BASE SITE # 1 ITALY		4. PROJECT TITLE GUARDIAN ANGEL OPERATIONS FACILITY			
5. PROGRAM ELEMENT 27224	6. CATEGORY CODE 141-185	7. RPSUID/PROJECT NUMBER 1400/ASHEL43008	8. PROJECT COST (\$000) 27,325		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					21,042
SQUADRON OPERATIONS FACILITY (141-185)		SM	6,785	2,437	( 16,535 )
AQUATIC TRAINING CENTER (141-185)		SM	500	8,188	( 4,094 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 413 )
SUPPORTING FACILITIES					2,550
UTILITIES		LS			( 650 )
SITE IMPROVEMENTS		LS			( 650 )
PAVEMENTS		LS			( 960 )
COMMUNICATIONS SUPPORT		LS			( 170 )
ANTITERRORISM/FORCE PROTECTION		LS			( 120 )
SUBTOTAL					23,592
CONTINGENCY (5.0%)					1,180
TOTAL CONTRACT COST					24,771
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					1,610
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					944
TOTAL REQUEST					27,325
TOTAL REQUEST (ROUNDED)					27,325
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 1,310 )
10. Description of Proposed Construction: Construct a new Guardian Angel complex to include operations administration, warehouse, and aquatic training space utilizing conventional design and construction methods to accommodate the mission of the facility. Construction will consist of reinforced concrete foundations, reinforced concrete frame structure with clay block masonry infill, cement plaster stucco, reinforced hollow concrete roof with clay tiles, all supporting utilities, pavements, communications, site improvements and associated support facilities to ensure a complete and usable facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 200 Tons					
11. Requirement: 7285 SM Adequate: 0 SM Substandard: 0 SM					
<u>PROJECT:</u> Guardian Angel (GA) Operations Facility (New Mission)					
<u>REQUIREMENT:</u> Construct adequately sized, purpose built GA facilities to provide operations, administration, aquatic training, warehouse and equipment storage areas for the Personnel Recovery mission being assigned to Aviano AB, Italy. Search-and-rescue operations are being relocated from sub-standard facilities at RAF Lakenheath, United Kingdom to Aviano AB, Italy pursuant to an Overseas Force Structure Change and					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION AVIANO AIR BASE AVIANO AIR BASE SITE # 1 ITALY			4. PROJECT TITLE GUARDIAN ANGEL OPERATIONS FACILITY	
5. PROGRAM ELEMENT  27224	6. CATEGORY CODE  141-185	7. RPSUID/PROJECT NUMBER  1400/ASHE143008	8. PROJECT COST (\$000)  27,325	
<p>the European Infrastructure Consolidation, which validated excess capacity at Aviano. The search-and-rescue function is comprised of three units, the 57th Rescue Squadron (RQS), 56th RQS and 56th Helicopter Maintenance Unit (HMU). The excess facility capacity at Aviano is adequate to support the beddown of the 56 RQS and 56 HMU only. This project is required to support the beddown of the 83 Guardian Angel personnel and four unit type code equipment assigned to the 57 RQS. The increased squadron ops facility size is driven by an increase of 38 additional personnel, additional mechanical space for conditioning, and the integration of women into direct combat roles. Additionally, the project constructs aquatic training facilities to ensure water-based training and certification currency of the GA personnel to enable the search-and-rescue units continued support to EUCOM and AFRICOM AOR requirements.</p> <p><u>CURRENT SITUATION:</u> No facilities exist that are large enough to modernize/renovate to accommodate the 57 RQS mission and Aviano AB will be forced to utilize temporary facilities to support the 57 RQS until the construction of permanent facilities.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Adequate permanent facilities will not exist for the 57 RQS to perform essential GA operations. Specialized GA equipment will be required to be stored in multiple dispersed facilities around the installation to include outdoor storage. This will result in increased equipment replacement cost and inefficiencies driven by exposure to the elements. There is also the potential critical equipment will be unavailable when needed leading to significant degradation of GA mission performance and capabilities.</p> <p><u>ADDITIONAL:</u> This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements; new construction. This project is not within an established NATO Infrastructure capability package for common funding, nor is it expected to become eligible. Current NATO policy indicates this item will continue to be a user responsibility. Base Civil Engineer: Comm 39-0434-30-5720. Guardian Angel Facility: 7,285 SM = 78,415 SF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .9329</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION AVIANO AIR BASE AVIANO AIR BASE SITE # 1 ITALY		4. PROJECT TITLE GUARDIAN ANGEL OPERATIONS FACILITY	
5. PROGRAM ELEMENT 27224	6. CATEGORY CODE 141-185	7. PROJECT NUMBER 1400/ASHE143008	8. PROJECT COST (\$000) 27,325
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			1,093
(4) Construction Contract Award			18 JUL
(5) Construction Start			18 AUG
(6) Construction Completion			19 AUG
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
SQD OPS FURNISHINGS	3400	19	110
WAREHOUSE EQUIPMENT/SHELVING	3400	19	450
ATC FURNISHINGS/EQUIPMENT	3400	19	350
ROCK CLIMBING TOWER	3080	19	400

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>					<b>2. DATE (YYYYMMDD)</b> 20160930				
<b>3. INSTALLATION AND LOCATION</b> AL UDEID QATAR				<b>4. COMMAND</b> AIR COMBAT COMMAND			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.19				
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>TOTAL</b>
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-Sep-16		45	42	0	0	0	0	134	6434	350	7,005
b. END FY 2022		45	42	0	0	0	0	134	6434	350	7,005
<b>7. INVENTORY DATA (\$000)</b>											
a. TOTAL ACREAGE		9,673									
b. INVENTORY TOTAL AS OF 30-Sep-16		1,594,298									
c. AUTHORIZATION NOT YET IN INVENTORY		0									
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2018)		15,000									
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)		0									
f. REMAINING DEFICIENCY		14,000									
g. GRAND TOTAL		1,623,298									
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)</b>											
a. CATEGORY											
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>				<b>(3) SCOPE</b>			<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>	
141-753	Consolidated Squadron Operations Facility				4,000 SM			15,000		(1) START	(2) COMPLETE
<b>TOTAL</b>								15,000			
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022)</b>											
<b>FUTURE PROJECTS TOTAL</b> 0											
<b>R&amp;M UNFUNDED REQUIREMENT (\$M)</b>								<b>TOTAL</b>		0.0	
<b>10. MISSION OR MAJOR FUNCTIONS</b>											
The 379th Air Expeditionary Wing is the largest, most diverse expeditionary wing the Air Force, providing combat airpower and support for Operations Inherent Resolve and Freedom's Sentinel. The wing and associate units operate more than 100 aircraft, making the base a large hub for humanitarian airlift activity while providing mission-essential combat power, aeromedical evacuation, airlift, air refueling, and intelligence gathering for multiple theaters of operations.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022)</b>											
a. Air Pollution											
b. Water Pollution											
c. Occupational Safety and Health											
d. Other Environmental											
<b>OUTSTANDING DEFICIENCIES TOTAL</b>								0			

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION AL UDEID AB QATAR			4. PROJECT TITLE CONSOLIDATED SQUADRON OPERATIONS FACILITY		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-753	7. RPSUID/PROJECT NUMBER /ALUA113023	8. PROJECT COST (\$000) 15,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					11,200
CONSOLIDATED SQUADRON OPERATIONS FACILITY		SM	4,000	2,745	( 10,980 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 220 )
SUPPORTING FACILITIES					2,264
UTILITIES		LS			( 1,670 )
SITE IMPROVEMENTS		LS			( 447 )
COMMUNICATIONS		LS			( 147 )
SUBTOTAL					13,464
CONTINGENCY (5.0%)					673
TOTAL CONTRACT COST					14,137
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					919
TOTAL REQUEST					15,056
TOTAL REQUEST (ROUNDED)					15,000
<p>10. Description of Proposed Construction: Construct a consolidated squadron operations facility utilizing conventional design and construction methods to accommodate the mission of the facility. The facility will include a concrete foundation and a concrete structural envelope/frame with concrete masonry units and exterior stucco finish. Project will include fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.</p> <p>Air Conditioning: 150 Tons</p>					
<p>11. Requirement: 4000 SM Adequate: 0 SM Substandard: 1404 SM</p> <p>PROJECT: Consolidated Squadron Operations Facility (Current Mission).</p> <p>REQUIREMENT: The 379th Expeditionary Operations Group at Al Udeid Air Base, Qatar consists of six rotational flying squadrons; one C-130 unit, one C-17 unit, one C-21 unit, 1 bomber unit, and two KC-135 units. These squadrons require adequate space for planning, briefing and supporting operations personnel. Construction of a consolidated squadron operations facility will allow squadron administration and management functions from 24 separate temporary facilities to be consolidated into one permanent facility of proper size and configuration.</p> <p>CURRENT SITUATION: Al Udeid Air Base is the main US operating base in the Central Command Area of Responsibility supporting fighter, bomber, refueler, strategic and tactical airlift, logistics, pre-positioned War Reserve Materiel as well as the regional command and control center. The squadrons of the 379th Expeditionary</p>					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION AL UDEID AB  QATAR			4. PROJECT TITLE CONSOLIDATED SQUADRON OPERATIONS FACILITY	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  141-753	7. RPSUID/PROJECT NUMBER  /ALUA113023	8. PROJECT COST (\$000)  15,000	
<p>Operations Group are spread throughout 24 temporary facilities in the old "operations town" portion of the installation. This area was the initial set-up for management of the Wing and intended to be replaced by the long-term permanent facilities planned to be built in the North Ramp area. The temporary facilities were constructed in 2003 and have far exceeded their design service life. Due to the inadequate size of temporary facilities, squadrons are currently operating inefficiently out of multiple segregated facilities, which is not conducive to effective squadron management. In addition to having key staff to support the 379th Expeditionary Operations Group Commander in a central area, a consolidated operations facility increases efficient execution of common squadron functions. Additionally, siting for the consolidated operations facility places the 379th Expeditionary Operations Group in close proximity to the 379th Air Expeditionary Wing Headquarters allowing for more effective command and control. Most-critically, the Host Nation government has directed that the USAF vacate the area where the temporary facilities are currently located and move those functions to the North Ramp area.</p> <p>IMPACT IF NOT PROVIDED: If this project is not funded, flying squadron functions will continue to operate in substandard, temporary facilities that are separate from one another and dislocated from both the wing headquarters and their assigned aircraft. This scenario will continue to make management of multiple deployed flying units difficult and will hamper the ability of individual units to gain efficiencies offered by consolidating functions into a single facility.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in the Air Force Manual 32-1084, "Facility Requirements." A preliminary analysis of reasonable options evaluating status quo, renovation and new construction was accomplished. This analysis indicated that new construction is the only option that adequately meets operational requirements and complies with Host Nation direction. The Implementing Agreement signed in November 2002 between the United States Government does not require the Government of Qatar to fund all construction. Existing facilities will be abandoned in place and turned over to the Host Nation. Headquarters Air Forces Central Civil Engineer: 803-717-7055. Consolidated Squadron Operations Facility: 4,000 SM = 43,056 SF</p> <p>JOINT USE CERTIFICATION: This facility is programmed for joint use by all services; however, it is fully funded by the Air Force.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION AL UDEID AB  QATAR		4. PROJECT TITLE CONSOLIDATED SQUADRON OPERATIONS FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-753	7. PROJECT NUMBER /ALUA113023	8. PROJECT COST (\$000) 15,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			17-MAR-16
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2017			
* (d) Date 35% Designed			17-MAR-17
(e) Date Design Complete			01-SEP-17
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			900
(b) All Other Design Costs			450
(c) Total			1,350
(d) Contract			1,125
(e) In-house			225
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			19 DEC
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations: N/A			



1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION INCIRLIK AIR BASE ADANA INCIRLIK AB SITE # 1 TURKEY			4. PROJECT TITLE DORMITORY - 216 RM		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 721-312	7. RPSUID/PROJECT NUMBER 2370/LJYC093002	8. PROJECT COST (\$000) 25,997		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					18,278
DORMITORY - 216 RM		SM	8,208	2,183	( 17,920 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 358 )
SUPPORTING FACILITIES					4,969
UTILITIES		LS			( 1,900 )
PAVEMENTS		LS			( 650 )
SITE IMPROVEMENTS		LS			( 700 )
DEMOLITION		SM	9,782	140	( 1,369 )
COMMUNICATION SUPPORT		LS			( 350 )
SUBTOTAL					23,248
CONTINGENCY (5.0%)					1,162
TOTAL CONTRACT COST					24,410
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					1,587
TOTAL REQUEST					25,997
TOTAL REQUEST (ROUNDED)					25,997
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 1,400 )
10. Description of Proposed Construction: Construct a multi-story 216 room dormitory at Incirlik Air Base using the Air Force "Dorms for Airmen" room configuration. Construction will include reinforced concrete foundations and floor slabs, reinforced concrete walls and a sloped roof systems. The project will include all necessary utilities, site improvements, pavements, communications infrastructure, elevators and all other work necessary for a complete and useable facility. The project demolishes three buildings (9782 SM). The project must be in compliance with current US Air Force and Turkish seismic code regulations. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 150 Tons					
11. Requirement: 8208 SM Adequate: 0 SM Substandard: 9782 SM					
PROJECT: Dormitory - 216 RM (Current Mission)					
REQUIREMENT: A 216 room dorm using the Air Force "Dorms for Airman" standard configuration is required to support Security Forces Airmen assigned to Incirlik Air Base. In order to meet surety mission response requirements, Security Forces personnel must be able to muster and respond within moments notice. In order to allow Security Forces Airmen to muster within required response timeframe, the dorm must be sited in close proximity to the Base Defense Operations Center.					
CURRENT SITUATION: Existing dorms utilized by Security Forces Airmen are					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION INCIRLIK AIR BASE ADANA INCIRLIK AB SITE # 1 TURKEY			4. PROJECT TITLE DORMITORY - 216 RM	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  721-312	7. RPSUID/PROJECT NUMBER  2370/LJYC093002	8. PROJECT COST (\$000)  25,997	
<p>antiquated and in need of replacement. The existing dorms were constructed more than 40 years ago and have exceeded their intended design life. It is no longer economical to repair critical facility systems in the existing dorms. Additionally, existing dorms are located adjacent to delivery lane for the base dining facility. Siting of a residential dorm adjacent to a commercial vehicle delivery area is in violation of antiterrorism/force protection (AT/FP) criteria and places dorm residents at risk. Furthermore, the current location of dorms lengthens the time required for Security Forces Airmen to muster and respond to protect surety assets. This project would reduce current response times by 2.5 minutes.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, Security Forces Airmen will continue to live in substandard conditions resulting in reduced morale, productivity and career satisfaction. Residents will continue to be unnecessarily exposed to the AT/FP risk posed by close proximity to the dining facility commercial delivery area.</p> <p>ADDITIONAL: This requirements meets the scope and criteria of Air Force Manual 32-1084, "Facility Requirements." An analysis of alternatives evaluating status quo, repair and new construction was accomplished. This analysis indicated new construction is the only option that meets mission requirements and an Economic Analysis Waiver was approved. This project is not within an established NATO Infrastructure capability package for common funding, nor is it expected to become eligible. Current NATO policy indicates this item will continue to be a user responsibility. 39th Air Base Wing Base Civil Engineer: 010-90-322-316-6423. Dormitory: 8,208 SM = 88,350 SF. BY-2 Unaccompanied Housing R&amp;M Conducted: \$120K BY-1 Unaccompanied Housing R&amp;M Conducted: \$0K Future Unaccompanied Housing R&amp;M Requirements: \$0K</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: LIRA 3.4789</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the projects is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION INCIRLIK AIR BASE ADANA INCIRLIK AB SITE # 1 TURKEY		4. PROJECT TITLE DORMITORY - 216 RM	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 721-312	7. PROJECT NUMBER 2370/LJYC093002	8. PROJECT COST (\$000) 25,997
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			01-APR-17
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2017			65%
* (d) Date 35% Designed			01-OCT-17
(e) Date Design Complete			01-MAY-18
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			1,560
(b) All Other Design Costs			780
(c) Total			2,340
(d) Contract			1,950
(e) In-house			390
(4) Construction Contract Award			18 AUG
(5) Construction Start			18 SEP
(6) Construction Completion			20 DEC
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHINGS	3400	2020	1,300
COMMUNICATION EQUIPMENT	3400	2020	100



1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION RAF FAIRFORD RAF FAIRFORD SITE # 1 UNITED KINGDOM			4. PROJECT TITLE EIC - RC-135 INTEL AND SQUAD OPS FACILITY		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-456	7. RPSUID/PROJECT NUMBER 2066/GKVB163017	8. PROJECT COST (\$000) 38,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					27,316
INTEL SCIF FACILITY (141-456)		SM	2,230	7,478	( 16,676 )
INTEL NON SCIF (141-456)		SM	836	4,399	( 3,677 )
SQUAD OPS SCIF (141-753)		SM	651	7,478	( 4,868 )
SQUAD OPS NON SCIF (141-753)		SM	372	4,399	( 1,636 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 459 )
SUPPORTING FACILITIES					6,671
UTILITIES		LS			( 1,327 )
PAVEMENTS		LS			( 1,677 )
SITE IMPROVEMENTS		LS			( 1,052 )
EMERGENCY GENERATOR		LS			( 320 )
ANTENNA TOWER		LS			( 75 )
PASSIVE AT/FP MEASURES		LS			( 1,170 )
COMMUNICATION SUPPORT		LS			( 1,050 )
SUBTOTAL					33,987
CONTINGENCY (5.0%)					1,699
TOTAL CONTRACT COST					35,687
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)					892
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					1,360
TOTAL REQUEST					37,939
TOTAL REQUEST (ROUNDED)					38,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					13,465
10. Description of Proposed Construction: Construct a two-story combined intelligence and squadron operations facility for RC-135 bed down on RAF Fairford, utilizing conventional design and construction methods to accommodate the mission of the facility. The facility will include a reinforced concrete foundation, concrete floor slab, structural steel frame and a standing seam metal roof. The project will include site improvements and landscaping, access roads, parking lots, external security fencing, sidewalks, exterior lighting, communications support including sensitive compartmental information facility (SCIF) areas, fire detection and suppression, mass-notification, raised floor areas, and all other utilities and necessary support for a complete and usable facility. The facility will also include an emergency generator for 24/7 operations. Facilities will be designed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02: High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01 and Intelligence Community Directive(ICD) 705.					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAF FAIRFORD RAF FAIRFORD SITE # 1 UNITED KINGDOM			4. PROJECT TITLE EIC - RC-135 INTEL AND SQUAD OPS FACILITY	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  141-456	7. RPSUID/PROJECT NUMBER  2066/GKVB163017	8. PROJECT COST (\$000)  38,000	
Air Conditioning: 300 Tons				
11. Requirement: 4089 SM Adequate: 0 SM Substandard: 0 SM				
<u>PROJECT:</u> European Infrastructure Consolidation (EIC) - RC-135 Intelligence and Squadron Operations Facility (New Mission)				
<u>REQUIREMENT:</u> Construct intelligence processing and squadron operations facility in support of RC-135 mission relocation to RAF Fairford due to arrive in FY21. Intelligence processing and analysis space in this facility will include 2,230 SM of Sensitive Compartmented Information Facility (SCIF) space with National Security Administration Network (NSANet), Joint Worldwide Intelligence Communications System (JWICS), Secret Internet Protocol Router (SIPR), Non-classified Internet Protocol Router (NIPR) network connectivity, SECURE voice/Voice over Secure Internet Protocol (VOSIP), National Secure Telephone System (NSTS) phone connectivity. Other non-SCIF space includes a 93 SM language lab and 743 SM of administrative space for 488th Intelligence Squadron (488 IS) mission support functions. Provision within the structure for the 95th Reconnaissance Squadron (95 RS) will include 651 SM SCIF space for mission planning, life support, and 372 SM for 95 RS administrative/leadership & control functions in the squadron operations section. SCIF spaces will include but are not limited to classified storage in the facility. All SCIF spaces in this facility shall comply with Intelligence Community Directive (ICD) 705.				
<u>CURRENT SITUATION:</u> Closure of RAF Mildenhall is driving the relocation of the 488 IS and 95 RS from RAF Mildenhall to RAF Fairford. No facility is available for the 488 IS to support the RC-135 mission coming to RAF Fairford. There are no facilities on RAF Fairford for the 95 RS to use as a squadron operations facility.				
<u>IMPACT IF NOT PROVIDED:</u> RAF Fairford does not have available SCIF space to support the 488 IS and 95 RS missions. Failure to provide the SCIF and Non-SCIF space will jeopardize the ability of the 488 IS to conduct timely in-theater analysis and disseminate critical intelligence in support of NATO and allied forces, US national decision makers as well as tactical warfighters on the ground and in the air. Furthermore, the 95 RS will not have an adequate permanent facility to conduct mission planning, life support operations and administrative functions, severely limiting the ability of the 95 RS to launch and recover RC-135 intelligence collection sorties from RAF Fairford. In addition, failure to provide an adequate permanent facility for the 488 IS and 95 RS will prevent the timely closure of RAF Mildenhall and puts at risk the associated base operating and support (BOS) costs savings associated with European Infrastructure Consolidation (EIC) until new permanent facilities are constructed at RAF Fairford.				
<u>ADDITIONAL:</u> This project meets the criteria/scope in Air Force Manual 32-1084 "Facility Requirements." A preliminary analysis of reasonable alternatives evaluating status quo, renovation and new construction indicates that new construction is the most economical option which meets mission requirements. An economic analysis of reasonable options for accomplishing this project is being prepared. This project is not within an established NATO capability package for common funding, nor is it expected to become eligible. Current NATO policy indicates that this requirement will continue to be a user responsibility. The				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAF FAIRFORD RAF FAIRFORD SITE # 1 UNITED KINGDOM			4. PROJECT TITLE EIC - RC-135 INTEL AND SQUAD OPS FACILITY	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  141-456	7. RPSUID/PROJECT NUMBER  2066/GKVB163017	8. PROJECT COST (\$000)  38,000	
<p>reason for the cost of supporting facilities being more than 25% of the cost of primary facilities is due extensive supporting communications infrastructure requirements as well emergency generator and antenna requirements. 420th Air Base Squadron Base Civil Engineer: 044-1285-714991. Intel SCIF Facility: 2,230 SM = 24,004 SF; Intel Non SCIF Facility: 836 SM = 8,999 SF; Squad Ops SCIF: 651 SM = 7,007 SF; Squad Ops Non SCIF: 372 SM = 4,004 SF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION RAF FAIRFORD RAF FAIRFORD SITE # 1 UNITED KINGDOM		4. PROJECT TITLE EIC - RC-135 INTEL AND SQUAD OPS FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-456	7. PROJECT NUMBER 2066/GKVB163017	8. PROJECT COST (\$000) 38,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			2,360
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			20 JUN
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHINGS, FIXTURES & EQUIP	3400	2020	600
UNINTERRUPTABLE POWER SUPPLY	3080	2020	250
COMMUNICATIONS EQUIPMENT	3400	2020	2,800
SECURITY ALARM/BADGE/SENSOR	3080	2020	500
ICD 705 SURVEILLANCE	3400	2018	9,315

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION RAF FAIRFORD RAF FAIRFORD SITE # 1 UNITED KINGDOM			4. PROJECT TITLE EIC - RC-135 RUNWAY OVERRUN RECONFIGURATION		
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  111-115	7. RPSUID/PROJECT NUMBER  2066/GKVB163020	8. PROJECT COST (\$000)  5,500		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					4,285
OVERRUN, PAVED		SM	30,610	140	( 4,285 )
SUPPORTING FACILITIES					645
UTILITIES		LS			( 470 )
PAVEMENTS		LS			( 100 )
SITE IMPROVEMENTS		LS			( 75 )
SUBTOTAL					4,930
CONTINGENCY (5.0%)					247
TOTAL CONTRACT COST					5,177
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)					129
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					197
TOTAL REQUEST					5,504
TOTAL REQUEST (ROUNDED)					5,500
<p>10. Description of Proposed Construction: Reconfigure eastern overrun for a displaced take off runway threshold (convert to take-off runway surface) to include renewal of airfield markings and adjustment of airfield ground lighting. Regrade and resurface western overrun and reconfigure to enable use for aircraft take-off. Include relocating instrument landing system localizer transmitter to new level and rewire runway approach lighting in the affected area. Provide storm drainage for the new surface and install a new oil water separator. The project includes all necessary supporting work to make complete and useable facilities. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 0 Tons</p>					
<p>11. Requirement: 30610 SM Adequate: 0 SM Substandard: 0 SM</p> <p><u>PROJECT:</u> European Infrastructure Consolidation (EIC) - RC-135 Strengthen Overruns (New Mission)</p> <p><u>REQUIREMENT:</u> Regrade, reconstruct, strengthen and repaint the runway overruns to permit their use for runway displaced take off thresholds. Includes the repositioning of the western instrument landing system localizer transmitter to a new level, rewiring and modification of runway approach and runway edge lighting systems.</p> <p><u>CURRENT SITUATION:</u> The current runway configuration does not provide adequate runway length to support RC-135 take-off during periods of inclement weather. The standard fuel load for an RC-135 at take-off is 105,000 pounds. During periods of wet weather, fuel loads must be reduced to 95,000 pounds and during some wind</p>					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAF FAIRFORD RAF FAIRFORD SITE # 1 UNITED KINGDOM			4. PROJECT TITLE EIC - RC-135 RUNWAY OVERRUN RECONFIGURATION	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  111-115	7. RPSUID/PROJECT NUMBER  2066/GKVB163020	8. PROJECT COST (\$000)  5,500	
<p>conditions the fuel load must be further reduced to 85,000 pounds. Reduction of fuel load at take-off drives a requirement for in-flight refueling operations.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Failure to reconfigure the runway 27 and 09 overruns would significantly increase costs associated with conducting RC-135 operations from RAF Fairford as the requirement for in-flight refueling operations would be substantially increased.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope Air Force Handbook 32-1084, "Facility Requirements." An analysis of reasonable alternatives evaluating status quo, renovation and new construction was accomplished. This analysis indicated new construction as the most economical option that meets mission requirements. This project is not within an established NATO Infrastructure capability package for common funding, nor is it expected to become eligible. Current NATO policy indicates this item will continue to be a user responsibility. 420th Air Base Squadron Base Civil Engineer: 044-1285-714991. Overruns: 30,610 SM = 329,483 SF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION RAF FAIRFORD RAF FAIRFORD SITE # 1 UNITED KINGDOM		4. PROJECT TITLE EIC - RC-135 RUNWAY OVERRUN RECONFIGURATION	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 111-115	7. PROJECT NUMBER 2066/GKVB163020	8. PROJECT COST (\$000) 5,500
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) All Other Design Costs 220</p> <p>(4) Construction Contract Award 18 FEB</p> <p>(5) Construction Start 18 MAR</p> <p>(6) Construction Completion 19 DEC</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>			

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION RAF FAIRFORD RAF FAIRFORD SITE # 1 UNITED KINGDOM		4. PROJECT TITLE EIC - RC-135 INFRASTRUCTURE			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 813-228	7. RPSUID/PROJECT NUMBER 2066/GKVB163021	8. PROJECT COST (\$000) 2,150		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					1,770
ELECTRICAL SWITCH STATION (813-228)		SM	37	17,000	( 629 )
PRIMARY DISTRIBUTION LINE (812-225)		LM	300	1,650	( 495 )
SANITARY SEWER (832-266)		LM	500	620	( 310 )
ELECTRICAL SUBSTATION (813-231)		KV	1,350	175	( 236 )
SANITARY SEWAGE PUMP STATION (832-267)		EA	1	100,000	( 100 )
SUPPORTING FACILITIES					176
SITE IMPROVEMENTS		LS			( 65 )
DEMOLITION		SM	327	340	( 111 )
SUBTOTAL					1,946
CONTINGENCY (5.0%)					97
TOTAL CONTRACT COST					2,044
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)					51
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					78
TOTAL REQUEST					2,173
TOTAL REQUEST (ROUNDED)					2,150
10. Description of Proposed Construction: Construct High Voltage (HV) electrical infrastructure to include new main base switch vault, new primary base high voltage distribution switchgear and a new RC-135 facilities electrical substation. Provide sanitary sewer capacity by installing a sewer collection and pumping facility to include all necessary pumps and controls in support of RC-135 mission relocation to RAF Fairford. The project includes all necessary supporting work to make complete and useable facilities. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 0 Tons					
11. Requirement: 37 SM Adequate: 0 SM Substandard: 0 SM					
<u>PROJECT:</u> European Infrastructure Consolidation (EIC) - RC-135 Infrastructure (New Mission)					
<u>REQUIREMENT:</u> Electrical power distribution systems are required to support all mission requirements to include facilities, airfields and utility systems. Primary power grids must be provided with electrical switching capacity to ensure safe and reliable power distribution throughout the installation. Sanitary sewers and related infrastructure are required to capture, transport and treat sewage effluent to maintain cleanliness and the environment.					
<u>CURRENT SITUATION:</u> The proposed RC-135 beddown site lacks sufficient					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAF FAIRFORD RAF FAIRFORD SITE # 1 UNITED KINGDOM			4. PROJECT TITLE EIC - RC-135 INFRASTRUCTURE	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  813-228	7. RPSUID/PROJECT NUMBER  2066/GKVB163021	8. PROJECT COST (\$000)  2,150	
<p>infrastructure and utilities to support the new mission. The existing base switch vault is located immediately adjacent to the base perimeter in a facility that cannot be enlarged to support additional switchgear required. The installation electrical demand is expected to increase by as much as 100 percent as a result of new facilities planned and the existing distribution system is not configured to support it. Existing sewers are located a significant distance from the proposed location of the new RC-135 Intel and Squadron Operations facility and a new pumped system will be required to connect to the existing base sewer system.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Without improving the capacity and capability of the base primary electrical distribution system new facilities will have an inadequate and unreliable electrical supply and the new facilities planned will be unable to adequately support mission requirements. Failure to provide additional sewer infrastructure will result in inadequate or inefficient use of sewage collection systems requiring daily servicing and support.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope directed in Air Force Handbook 32-1084, "Facility Requirements." A preliminary analysis of reasonable alternatives evaluating status quo, renovation and new construction was accomplished. This analysis indicated new construction as the most economical option that meets mission requirements. A formal economic analysis is being developed. This project is not within an established NATO Infrastructure capability package for common funding, nor is it expected to become eligible. Current NATO policy indicates the item will continue to be a user nation responsibility. 420th Air Based Squadron Base Civil Engineer: 044-1285-714991. Electrical Distribution Switch Station: 37 SM = 398 SF; Primary Distribution Line: 300 LM = 984 LF; Sanitary Sewer: 500 LM = 1,640 LF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION RAF FAIRFORD RAF FAIRFORD SITE # 1 UNITED KINGDOM		4. PROJECT TITLE EIC - RC-135 INFRASTRUCTURE	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 813-228	7. PROJECT NUMBER 2066/GKVB163021	8. PROJECT COST (\$000) 2,150
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) All Other Design Costs 86</p> <p>(4) Construction Contract Award 18 FEB</p> <p>(5) Construction Start 18 MAR</p> <p>(6) Construction Completion 19 JUN</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>			

<b>1. COMPONENT</b> AIR FORCE		<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>				<b>2. DATE (YYYYMMDD)</b> 20160930							
<b>3. INSTALLATION AND LOCATION</b> RAF LAKENHEATH UNITED KINGDOM			<b>4. COMMAND</b> UNITED STATES AIR FORCES IN EUROPE			<b>5. AREA CONSTRUCTION COST INDEX</b> 1.4							
<b>6. PERSONNEL</b>		<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>TOTAL</b>		
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN			
a. AS OF	30-Sep-16	518	4069	637	0	0	0	6	58	15	5,303		
b. END FY	2022	520	4135	629	0	0	0	6	58	15	5,363		
<b>7. INVENTORY DATA (\$000)</b>													
<b>a. TOTAL ACREAGE</b>		2,007											
<b>b. INVENTORY TOTAL AS OF</b>		30-Sep-16										3,072,621	
<b>c. AUTHORIZATION NOT YET IN INVENTORY</b>												0	
<b>d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2018)</b>												136,992	
<b>e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)</b>												110,300	
<b>f. REMAINING DEFICIENCY</b>												278,000	
<b>g. GRAND TOTAL</b>												3,597,913	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)</b>													
<b>a. CATEGORY</b>		<b>(1) CODE</b>			<b>(2) PROJECT TITLE</b>			<b>(3) SCOPE</b>			<b>b. COST (\$000)</b>	<b>c. DESIGN STATUS</b>	
												(1) START	(2) COMPLETE
		113-321 F-35A F-15 Parking						46,100 SM			10,800	Design/Build	
		141-753 F-35A Squadron Operations and AMU						8,379 SM			41,000	06/15	09/16
		171-212 F-35A Flight Simulator Facility						6,276 SM			22,000	06/15	09/16
		171-618 F-35A Field Training Detachment Facility						3,972 SM			12,492	06/15	09/16
		211-177 F-35A 6-Bay Hangar						4,288 SM			24,000	06/15	09/16
		211-159 Consolidated Corrosion Control Facility						2,384 SM			20,000	Design/Build	
		812-225 F-35A Infrastructure						1,300 LM			6,700	Design/Build	
								<b>TOTAL</b>			<b>136,992</b>		
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022)</b>													
211-177 F-35A 6-Bay Hangar					4,288 SM						37,000		
113-321 F-35A Parking Apron					42,977 SM						26,000		
211-179 F-35A Fuel System Maintenance Dock 2-Bay					1,691 SM						16,000		
218-712 F-35A AGE Facility					2,750 SM						11,800		
211-159 F-35A Wash Rack					822 SM						6,300		
442-758 F-35A Parts Store					2,260 SM						13,200		
					<b>FUTURE PROJECTS TOTAL</b>						<b>110,300</b>		
<b>R&amp;M UNFUNDED REQUIREMENT (\$M)</b>											<b>TOTAL</b>	<b>24.6</b>	
<b>10. MISSION OR MAJOR FUNCTIONS</b>													
RAF Lakenheath is home to the 48th Fighter Wing, the largest fighter wing in USAFE. Its mission is to train, support, and employ a Combat Fighter Wing, including one F-15C (493rd FS) and two F-15E squadrons (492nd and 494th FS) together with a squadron of HH-60 helicopters (56 RQS). Future missions include the F-35A and RC-135.													
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022)</b>													
a. Air Pollution													
b. Water Pollution													
c. Occupational Safety and Health													
d. Other Environmental													
<b>OUTSTANDING DEFICIENCIES TOTAL</b>										<b>0</b>			

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM		4. PROJECT TITLE CONSOLIDATED CORROSION CONTROL FACILITY		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 211-159	7. RPSUID/PROJECT NUMBER 2470/MSET143006	8. PROJECT COST (\$000) 20,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				13,625
CORROSION CONTROL (211-159)	SM	1,562	5,602	( 8,750 )
WASH RACK (116-672)	SM	822	5,602	( 4,605 )
SUSTAINABILITY AND ENERGY MEASURES	LS			( 270 )
SUPPORTING FACILITIES				4,189
PAINT BOOTH	LS			( 1,000 )
UTILITIES	LS			( 829 )
SITE IMPROVEMENTS	LS			( 522 )
PAVEMENTS	LS			( 1,089 )
COMMUNICATIONS SUPPORT	LS			( 250 )
DEMOLITION	LS			( 499 )
SUBTOTAL				17,814
CONTINGENCY (5.0%)				891
TOTAL CONTRACT COST				18,704
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				468
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				713
TOTAL REQUEST				19,885
TOTAL REQUEST (ROUNDED)				20,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				700
<p>10. Description of Proposed Construction: Construct a hangar facility for corrosion control and a wash rack utilizing conventional design and construction methods to accommodate the mission of the facility. The project will include reinforced concrete foundation, concrete slab, structural steel frame, standing seam metal roof/exterior, electrical work, site improvements, landscaping, pavement, parking, utilities, fire detection/protection, and all necessary supporting facilities for a complete and usable facility. This project demolishes miscellaneous horizontal items across the construction site. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 40 Tons</p>				
<p>11. Requirement: 3311 SM Adequate: 927 SM Substandard: 3713 SM</p> <p><u>PROJECT:</u> Consolidated Corrosion Control Facility (Current Mission)</p> <p><u>REQUIREMENT:</u> Construct a corrosion control hangar and wash rack on RAF Lakenheath. This facility will include a paint booth and wash rack. Facility shall have a full aircraft paint booth and sanding area, as well as an off plane component paint and sanding booth and wash rack. Wash rack will be provided to meet F-35 requirement</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM			4. PROJECT TITLE CONSOLIDATED CORROSION CONTROL FACILITY	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  211-159	7. RPSUID/PROJECT NUMBER  2470/MSET143006	8. PROJECT COST (\$000)  20,000	
<p>but can also be used by current mission F-15 aircraft. The rest of the facility will be used solely by current mission F-15 aircraft.</p> <p><u>CURRENT SITUATION:</u> Currently corrosion control (Building 1219) is operated out of a WWII hangar that has been modified to fit the paint booths. This facility does not have proper decontamination areas, causing personnel to continually be exposed to a contaminated environment. This facility is not structurally sound to handle high winds and needs to be vacated when they exceed 50 knots. The wash rack (Building 1229) is located in a nearby hangar modified into a wash rack. It does not have sufficient capacity to handle the additional aircraft load from the F-35.</p> <p><u>IMPACT IF NOT PROVIDED:</u> If this project is not provided corrosion control will continue to operate out of substandard spaces. Corrosion control will still be operated in a facility with inadequate decontamination areas, posing serious risk to personnel health. Additionally, the wash rack will not be available to meet new F-35 load.</p> <p><u>ADDITIONAL:</u> This project meets all requirements identified in Air Force Manual 32-1084, "Facility Requirements". All work associated with this project shall comply with USAF and Host Nation regulations and agreements. The country-to-country agreement precludes the use of International Competitive Bidding (ICB) proceedings in the United Kingdom. Base Civil Engineer: Comm 0044-1638-522100. Corrosion Control: 1,562 SM = 16,813 SF, Wash Rack: 822 SM = 8,848 SF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE																
3. INSTALLATION AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM		4. PROJECT TITLE CONSOLIDATED CORROSION CONTROL FACILITY																	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 211-159	7. PROJECT NUMBER 2470/MSET143006	8. PROJECT COST (\$000) 20,000																
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) All Other Design Costs 800</p> <p>(4) Construction Contract Award 18 AUG</p> <p>(5) Construction Start 18 SEP</p> <p>(6) Construction Completion 20 DEC</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project provided from other appropriations:</p> <table border="1"> <thead> <tr> <th>EQUIPMENT NOMENCLATURE</th> <th>PROCURING APPRC</th> <th>FISCAL YEAR APPROPRIATED OR REQUESTED</th> <th>COST (\$000)</th> </tr> </thead> <tbody> <tr> <td>FALL PROTECTION SYSTEM</td> <td>3080</td> <td>2018</td> <td>300</td> </tr> <tr> <td>USER COMMUNICATION</td> <td>3400</td> <td>2018</td> <td>200</td> </tr> <tr> <td>FURNITURE</td> <td>3400</td> <td>2018</td> <td>200</td> </tr> </tbody> </table>				EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)	FALL PROTECTION SYSTEM	3080	2018	300	USER COMMUNICATION	3400	2018	200	FURNITURE	3400	2018	200
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)																
FALL PROTECTION SYSTEM	3080	2018	300																
USER COMMUNICATION	3400	2018	200																
FURNITURE	3400	2018	200																

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM		4. PROJECT TITLE F-35A F-15 PARKING			
5. PROGRAM ELEMENT  27142	6. CATEGORY CODE  113-321	7. RPSUID/PROJECT NUMBER  2470/MSET153003	8. PROJECT COST (\$000)  10,800		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					7,960
F-15 PARKING APRON		SM	20,100	396	( 7,960 )
SUPPORTING FACILITIES					1,771
UTILITIES		LS			( 900 )
SITE IMPROVEMENTS		LS			( 212 )
DEMOLITION		SM	930	709	( 659 )
SUBTOTAL					9,731
CONTINGENCY (5.0%)					487
TOTAL CONTRACT COST					10,218
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)					255
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					389
TOTAL REQUEST					10,862
TOTAL REQUEST (ROUNDED)					10,800
<p>10. Description of Proposed Construction: Expand F-15 parking on Alpha Ramp at RAF Lakenheath to support the beddown of the F-35A aircraft. Construction includes a Portland Cement Concrete (PCC) apron expansion. The project includes utilities, site improvements and all necessary supporting work to make a complete and useable facility. The project demolishes one facility (930 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 0 Tons</p>					
<p>11. Requirement: 46100 SM Adequate: 26000 SM Substandard: 0 SM</p> <p><u>PROJECT:</u> F-35A F-15 PARKING (New Mission)</p> <p><u>REQUIREMENT:</u> Expand the Alpha apron on RAF Lakenheath to create space for the F-15 aircraft that will be displaced from the Charlie Ramp by the bed down of two F-35A squadrons. The Alpha apron expansion must be configured to enable relocation of 18 F-15 aircraft from Charlie apron to Alpha apron.</p> <p><u>CURRENT SITUATION:</u> Currently RAF Lakenheath has 48 PAA F-15Es and 18 PAA F-15Cs. In order to provide adequate ramp maintenance space for new F-35A aircraft, the portion of Charlie apron currently occupied by 18 F-15 aircraft will be used for F-35A aircraft parking. Additionally, Charlie ramp must be significantly expanded to enable parking of all F-35A which will be assigned to RAF Lakenheath. This drives a requirement to expand the Alpha Ramp to accommodate the 18 F-15 aircraft which will be displaced from Charlie apron to Alpha apron.</p> <p><u>IMPACT IF NOT PROVIDED:</u> If this project is not provided, F-15 aircraft will not be able to relocate from Charlie apron to Alpha apron to enable adequate parking of F-</p>					

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3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM			4. PROJECT TITLE F-35A F-15 PARKING	
5. PROGRAM ELEMENT  27142	6. CATEGORY CODE  113-321	7. RPSUID/PROJECT NUMBER  2470/MSET153003	8. PROJECT COST (\$000)  10,800	
<p>35A aircraft. This would negatively impact beddown of the F-35A aircraft at RAF Lakenheath.</p> <p><u>ADDITIONAL:</u> This project meets the scope/criteria specified in Air Force Manual 32-1084, "Facility Requirements." A preliminary analysis of reasonable alternatives evaluating status quo, expansion of Charlie apron and expansion of Alpha apron (this request) was accomplished. This analysis indicated expansion of Alpha apron is the most cost effective alternative which meets mission requirements. A formal economic analysis is being prepared. The project is not within an established NATO Infrastructure capability package for common funding, nor is it expected to become eligible. Current NATO policy indicates this item will continue to be a user responsibility. 48th Fighter Wing Base Civil Engineer: 0044-1638-522100. F-15 Parking Apron: 20,100 SM = 216,355 SF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM		4. PROJECT TITLE F-35A F-15 PARKING	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 113-321	7. PROJECT NUMBER 2470/MSET153003	8. PROJECT COST (\$000) 10,800
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) All Other Design Costs 432</p> <p>(4) Construction Contract Award 18 AUG</p> <p>(5) Construction Start 18 SEP</p> <p>(6) Construction Completion 20 JUN</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>			

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM		4. PROJECT TITLE F-35A FLIGHT SIMULATOR FACILITY			
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 171-212	7. RPSUID/PROJECT NUMBER 2470/MSET153501	8. PROJECT COST (\$000) 22,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					16,776
FLIGHT SIMULATOR FACILITY		SM	3,025	5,437	( 16,447 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 329 )
SUPPORTING FACILITIES					2,953
UTILITIES		LS			( 338 )
SITE IMPROVEMENTS		LS			( 41 )
PAVEMENTS		LS			( 43 )
DEMOLITION		SM	156	200	( 31 )
COMMUNICATIONS SUPPORT		LS			( 2,500 )
SUBTOTAL					19,729
CONTINGENCY (5.0%)					986
TOTAL CONTRACT COST					20,716
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)					518
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					789
TOTAL REQUEST					22,023
TOTAL REQUEST (ROUNDED)					22,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 56,300 )
<p>10. Description of Proposed Construction: Construct a six bay flight simulator facility for F-35A aircraft utilizing conventional design and construction methods to accommodate the mission of the facility. The facility will include a reinforced concrete foundation and floor slab, structural steel frame, standing seam metal roof and brick exterior. Project will include fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. Project includes demolition of one building (156 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.</p> <p>Air Conditioning: 164 Tons</p>					
<p>11. Requirement: 6276 SM Adequate: 3251 SM Substandard: 0 SM</p> <p><u>PROJECT:</u> F-35A Flight Simulator Facility (New Mission).</p> <p><u>REQUIREMENT:</u> Construct a six bay F-35A flight simulator facility on RAF Lakenheath. This facility will support the two new F-35A squadrons that will be arriving on RAF Lakenheath starting in 1st Quarter FY22. Facility will include space for 6 aircraft flight simulator bays, administration, records, classrooms, brief/debrief rooms, classified server room, and storage space for F-35A pilot flight simulator training.</p>					

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3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM			4. PROJECT TITLE F-35A FLIGHT SIMULATOR FACILITY	
5. PROGRAM ELEMENT  27142	6. CATEGORY CODE  171-212	7. RPSUID/PROJECT NUMBER  2470/MSET153501	8. PROJECT COST (\$000)  22,000	
<p><b>CURRENT SITUATION:</b> The current flight simulator facilities on RAF Lakenheath are one 2 bay facility for 2 F-15E simulators and one 2 bay facility for 4 F-15C simulators. F-15C aircraft are leaving RAF Lakenheath however the existing 2 bay F-15C simulator facility is not adequately sized for the F-35A simulators. The simulator training requirement of the F-35As drives a need for 6 bays; as such 4 bays would be required to be added to the F-15 facility. The addition to and renovation of the F-15C simulator facility is not economical.</p>				
<p><b>IMPACT IF NOT PROVIDED:</b> This project provides critical real-world mission rehearsal and training for F-35A pilots. Without it, pilots will be unable to provide adequate support in operational tactics development without maintaining proficiency through flight simulator training. This, in turn, affects the overall operational capability of the war fighter.</p>				
<p><b>ADDITIONAL:</b> This project meets all criteria outlined in Air Force Manual 32-1084, "Facility Requirements." A preliminary analysis of reasonable alternatives evaluating status quo, add/alter and new construction was accomplished. This analysis indicated that new construction is the only alternative that meets mission requirements. A certificate of exemption is being prepared. The project is not within an established NATO Infrastructure capability package for common funding, nor is it expected to become eligible. Current NATO policy indicates that this item will continue to be a user responsibility. RAF Lakenheath BCE: 0044-1638-522100, Flight Simulator Facility: 3025 SM = 32,561 SF</p>				
<p><b>FOREIGN CURRENCY:</b> FCF Budget Rate Used: POUND .8072</p>				
<p><b>JOINT USE CERTIFICATION:</b> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

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3. INSTALLATION AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM		4. PROJECT TITLE F-35A FLIGHT SIMULATOR FACILITY	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 171-212	7. PROJECT NUMBER 2470/MSET153501	8. PROJECT COST (\$000) 22,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			880
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			20 JUN
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FLIGHT SIMULATOR EQUIPMENT	3010	17	40,000
FURNISHINGS	3400	19	200
COMMUNICATIONS SUPPORT	3400	19	100
FLIGHT SIMULATOR EQUIPMENT	3010	18	16,000

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM		4. PROJECT TITLE F-35A FIELD TRAINING DETACHMENT FACILITY			
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 171-618	7. RPSUID/PROJECT NUMBER 2470/MSET153506	8. PROJECT COST (\$000) 12,492		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					10,414
FTD FACILITY		SM	2,471	4,132	( 10,210 )
SUSTAINABLE DESIGN AND ENERGY MEASURES		LS			( 204 )
SUPPORTING FACILITIES					777
UTILITIES		LS			( 198 )
SITE IMPROVEMENTS		LS			( 33 )
PAVEMENTS		LS			( 46 )
COMMUNICATION SUPPORT		LS			( 500 )
SUBTOTAL					11,191
CONTINGENCY (5.0%)					560
TOTAL CONTRACT COST					11,751
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)					294
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					448
TOTAL REQUEST					12,492
TOTAL REQUEST (ROUNDED)					12,492
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 3,030 )
<p>10. Description of Proposed Construction: Construct an F-35A Field Training Detachment (FTD) Facility with a communications node utilizing conventional design and construction methods to accommodate the mission of the facility. The facility will include a reinforced concrete foundation, concrete floor slab, structural steel frame, standing seam metal roof and brick exterior. Project will include fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.</p> <p>Air Conditioning: 14 Tons</p>					
<p>11. Requirement: 4227 SM Adequate: 1756 SM Substandard: 0 SM</p> <p><u>PROJECT:</u> F-35A Field Training Detachment Facility (New Mission)</p> <p><u>REQUIREMENT:</u> Construct a FTD facility specifically designed for the F-35A training program and mock-ups. Facility will include: six Electronic Mediated Lecture (EML) Classrooms, an Egress Systems Maintenance Trainer (ESMT), an Outer Mold Line (OML) Training Lab, an F-35A Off-Equipment Training Engine/Mock-up, an Aerospace Ground Equipment (AGE) Training area, and admin space for instructors.</p> <p><u>CURRENT SITUATION:</u> The current facility used for FTD does not have enough capacity to accommodate both F-15C/E and F-35A maintenance training. Currently, the facility</p>					

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3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM			4. PROJECT TITLE F-35A FIELD TRAINING DETACHMENT FACILITY	
5. PROGRAM ELEMENT  27142	6. CATEGORY CODE  171-618	7. RPSUID/PROJECT NUMBER  2470/MSET153506	8. PROJECT COST (\$000)  12,492	
<p>is used to train personnel to maintain F-15Cs and F-15Es. This allowed for several of the training aids to be used for training on more than one air frame. The projected departure of the F-15C does not free up additional space since the current FTD is undersized for the current F-15E FTD. Once the F-35A aircraft arrive, a training space requirement exists for 2 completely different air frames, thus, requiring an additional facility co-located with the F-35A Aircraft Maintenance Unit and hangars.</p> <p><u>IMPACT IF NOT PROVIDED:</u> If an FTD for F-35A aircraft is not constructed the 2 FTDs will have share the same space, making it extremely difficult to hold classes for either airframe. Airframe mock ups will have to be moved around and require scheduled classroom time to do so. This will reduce the amount of classroom time and space available for the FTD student training potentially forcing them to go Temporary Duty (TDY) for required training, thus, theoretically hampering the overall maintenance training, mission effectiveness, and sortie production for the wing.</p> <p><u>ADDITIONAL:</u> This project shall meet all criteria/scope specified Air Force Manual 32-1084, "Facility Requirements" and the weapon system Facility Requirement Plan. This project had a preliminary analysis of alternatives, status quo; renovations; and new construction, accomplished and indicated that new construction was the only method that effectively met all requirements. A certificate of exemption is in progress. The project is not within an established NATO Infrastructure capability package for common funding, nor is it expected to become eligible. Current NATO policy indicates that this item will continue to be a user responsibility. 48th Fighter Wing Base Civil Engineer: 0044-1638-522100. Field Training Detachment Facility: 2471 SM = 26,567 SF</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

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3. INSTALLATION AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM		4. PROJECT TITLE F-35A FIELD TRAINING DETACHMENT FACILITY	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 171-618	7. PROJECT NUMBER 2470/MSET153506	8. PROJECT COST (\$000) 12,492
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			480
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			19 DEC
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHINGS	3400	2019	530
COMMUNICATIONS	3080	2019	1,500
AV EQUIPMENT	3400	2019	1,000

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM		4. PROJECT TITLE F-35A INFRASTRUCTURE		
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 812-225	7. RPSUID/PROJECT NUMBER 2470/MSET153509	8. PROJECT COST (\$000) 6,700	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				3,274
ELECTRICAL INFRASTRUCTURE (812-225)	LM	1,300	835	( 1,086 )
SANITARY SEWER (832-266)	LM	2,400	212	( 509 )
STORM SEWER (871-183)	LM	700	529	( 370 )
ROADS (851-147)	SM	2,100	409	( 860 )
PARKING LOTS (852-201)	SM	1,500	300	( 450 )
SUPPORTING FACILITIES				2,718
SITE IMPROVEMENTS	LS			( 2,250 )
DEMOLITION	SM	945	283	( 268 )
ENVIRONMENTAL REMEDIATION	LS			( 200 )
SUBTOTAL				5,992
CONTINGENCY (5.0%)				300
TOTAL CONTRACT COST				6,291
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				157
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				240
TOTAL REQUEST				6,688
TOTAL REQUEST (ROUNDED)				6,700
10. Description of Proposed Construction: Construct High Voltage (HV) electrical infrastructure, sanitary and storm sewers incorporating all necessary pumps stations, parking areas and an access road to the F-35A beddown site at RAF Lakenheath. Site improvements, remediation of areas of Special Scientific Interest (SSSI) and all other supporting work necessary to make complete and useable facilities is included. This project will demolish six facilities (945 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Antiterrorism/force protection requirements per UFC 4-010-01.				
11. Requirement: 1300 LM Adequate: 0 LM Substandard: 0 LM				
<u>PROJECT:</u> F-35A Infrastructure (New Mission)				
<u>REQUIREMENT:</u> This project will install a new power feed and substation, as well as upgrade the potable and waste water systems to the F-35A complex. The project will install a distribution substation at the termination of the new power feed onto the base. A power line will be run from the new distribution substation to the F-35A complex. The potable water, sanitary sewer, and storm water systems will be extended to allow all the facilities in the F-35A complex to have proper water pressure and drainage.				
<u>CURRENT SITUATION:</u> The area of RAF Lakenheath where the F-35A complex is planned to be constructed currently has several small facilities. The new facilities are				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM			4. PROJECT TITLE F-35A INFRASTRUCTURE	
5. PROGRAM ELEMENT  27142	6. CATEGORY CODE  812-225	7. RPSUID/PROJECT NUMBER  2470/MSET153509	8. PROJECT COST (\$000)  6,700	
<p>all significantly larger than the current facilities. Without upgrading all of the utilities to this area there will not be sufficient capacity to allow the facilities in the F-35A complex to function correctly.</p> <p><u>IMPACT IF NOT PROVIDED:</u> If this project is not provided there will not be sufficient power supply to the F-35A complex to enable effective use of planned facilities. In addition to this the domestic water supply will not have a sufficient volume to supply both fire water and domestic water for these facilities. The sanitary sewer and storm water systems in this area will not be able to handle the load from all the new facilities.</p> <p><u>ADDITIONAL:</u> This project meets the scope and criteria outlined in Air Force Handbook 32-1084, "Facility Requirements." A preliminary analysis of reasonable alternatives evaluating status quo and new construction was conducted. This analysis indicated new construction is the only feasible alternative which meets mission requirements. An economic analysis waiver is being prepared. This project is not within an established NATO capability package for common funding nor is it expected to become eligible. Current NATO policy indicates this requirement will continue to be a user responsibility. 48th Fighter Wing Base Civil Engineer: 0044-1638-522100. Electrical Infrastructure: 1,300 LM = 4,265 LF; Sanitary Sewer: 2,400 LM = 7874 LF; Storm Sewer: 700 LM = 2,297 LF; Roads: 2,100 SM = 6,890 SF; Parking Lots: 1,500 SM = 4,921 SF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM		4. PROJECT TITLE F-35A INFRASTRUCTURE	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 812-225	7. PROJECT NUMBER 2470/MSET153509	8. PROJECT COST (\$000) 6,700
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) All Other Design Costs 268</p> <p>(4) Construction Contract Award 18 AUG</p> <p>(5) Construction Start 18 SEP</p> <p>(6) Construction Completion 20 JUN</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>			

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM		4. PROJECT TITLE F-35A 6-BAY HANGAR			
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 211-177	7. RPSUID/PROJECT NUMBER 2470/MSET153513	8. PROJECT COST (\$000) 24,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					19,914
SMALL AIRCRAFT MAINTENANCE DOCK		SM	4,288	4,553	( 19,523 )
SUSTAINABILITY AND ENERGY MEASURES		LS			( 390 )
SUPPORTING FACILITIES					1,465
UTILITIES		LS			( 591 )
SITE IMPROVEMENTS		LS			( 41 )
PAVEMENTS		LS			( 118 )
COMMUNICATIONS SUPPORT		LS			( 500 )
DEMOLITION		SM	602	357	( 215 )
SUBTOTAL					21,379
CONTINGENCY (5.0%)					1,069
TOTAL CONTRACT COST					22,448
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)					561
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					855
TOTAL REQUEST					23,864
TOTAL REQUEST (ROUNDED)					24,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 1,280 )
<p>10. Description of Proposed Construction: Construct a 6-bay hangar facility utilizing conventional design and construction methods to accommodate the mission of the facility. The facility will include reinforced concrete foundation, concrete slab, structural steel frame, standing seam metal roof and exterior. The project includes one bridge crane, two gantry cranes, electrical work site improvements, landscaping, pavement, parking, utilities, fire detection/protection, and all necessary supporting facilities for a complete and usable facility. Demolition of two facilities is included (602 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 0 Tons</p>					
<p>11. Requirement: 20569 SM Adequate: 10302 SM Substandard: 0 SM</p> <p><u>PROJECT:</u> Construct a 6-bay F-35 hangar on RAF Lakenheath (New Mission)</p> <p><u>REQUIREMENT:</u> Construct a 6-bay hangar on RAF Lakenheath to house one of the new F-35A squadrons coming to RAF Lakenheath starting in first quarter FY22. Hangar will include 6 hangar bays, Low Observable (LO) material maintenance, engine maintenance, gun maintenance, and collateral storage. Each hangar bay will supply aircraft cooling air, aircraft and AGE power, and a LAN drop.</p> <p><u>CURRENT SITUATION:</u> The F-15Cs that are to be replaced by one of the F-35 squadrons</p>					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM			4. PROJECT TITLE F-35A 6-BAY HANGAR	
5. PROGRAM ELEMENT  27142	6. CATEGORY CODE  211-177	7. RPSUID/PROJECT NUMBER  2470/MSET153513	8. PROJECT COST (\$000)  24,000	
<p>are currently maintained out of Protective Aircraft Shelters (PASS) spread out around a quarter of the airfield. This is not a workable maintenance solution and a hangar needs to be constructed for each of the squadrons as the site specific activation plan (SSAP) determined the F-35s unique maintenance CONOPS requirements cannot be met within the PASS. There is not a suitable facility available for F-35 engine, gun, and LO maintenance.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Without this project there will not be sufficient dedicated F-35A maintenance space. Also there will not be adequate facilities to accomplish LO maintenance or store engine components. There is no other space on RAF Lakenheath to accomplish these F-35A maintenance actions and lack of this facility will potentially delay beddown of the F-35A aircraft mission.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope in Air Force Manual 32-1084, "Facility Requirements." A preliminary analysis of reasonable alternatives was accomplished comparing status quo, renovation and new construction. This analysis indicated that new construction was the most cost effective means to meet mission requirements. A formal economic analysis is being prepared. The remainder of hangar deficit will be met through future planned projects. The project is not within an established NATO Infrastructure capability package for common funding, nor is it expected to become eligible. Current NATO policy indicates that this item will continue to be a user responsibility. 48th Fighter Wing Base Civil Engineer: Comm 0044-1638-522100. Small Aircraft Maintenance Dock: 4,288 SM = 46,156 SF</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM		4. PROJECT TITLE F-35A 6-BAY HANGAR	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 211-177	7. PROJECT NUMBER 2470/MSET153513	8. PROJECT COST (\$000) 24,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			1
(4) Construction Contract Award			18 FEB
(5) Construction Start			18 MAR
(6) Construction Completion			20 JUN
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE, FIXTURES AND EQUIP	3400	19	530
COMMUNICATIONS	3080	19	750

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM		4. PROJECT TITLE F-35A SQUADRON OPERATIONS AND AMU		
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 141-753	7. RPSUID/PROJECT NUMBER 2470/MSET153514	8. PROJECT COST (\$000) 41,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				34,931
SQUADRON OPERATIONS (141-753)	SM	4,352	4,093	( 17,813 )
AIRCRAFT MAINTENANCE UNIT (211-154)	SM	3,663	4,200	( 15,385 )
WEAPONS AND RELEASE SYSTEM STORAGE (215-552)	SM	465	2,255	( 1,049 )
SUSTAINABILITY AND ENERGY MEASURES	LS			( 685 )
SUPPORTING FACILITIES				1,965
UTILITIES	LS			( 601 )
SITE IMPROVEMENTS	LS			( 41 )
PAVEMENTS	LS			( 106 )
DEMOLITION	SM	2,011	357	( 717 )
COMMUNICATIONS SUPPORT	LS			( 500 )
SUBTOTAL				36,896
CONTINGENCY (5.0%)				1,845
TOTAL CONTRACT COST				38,741
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				969
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				1,476
TOTAL REQUEST				41,185
TOTAL REQUEST (ROUNDED)				41,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				( 2,648 )
<p>10. Description of Proposed Construction: Construct a combined squadron operations and Aircraft Maintenance Unit (AMU) with weapons and release systems storage. The facility will include a reinforced concrete foundation, concrete floor slab, structural steel frame, standing seam metal roof and exterior. Project will include fire suppression systems, all utilities, pavements, communications, site improvements, and associated support facilities to provide a complete and useable facility. Project shall demolish two buildings (2011 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 200 Tons</p>				
<p>11. Requirement: 16320 SM Adequate: 7840 SM Substandard: 10169 SM</p> <p><u>PROJECT:</u> F-35A Squadron Operations and AMU (New Mission)</p> <p><u>REQUIREMENT:</u> Construct a combined squadron operations and AMU on RAF Lakenheath to house the two new F-35A squadrons due to arrive on RAF Lakenheath in FY21. Facilities shall incorporate mission planning, life support, and squadron administration space in the squadron operations section. The AMU section shall be designed to optimize maintenance administration for the F-35A squadrons. This space</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM			4. PROJECT TITLE F-35A SQUADRON OPERATIONS AND AMU	
5. PROGRAM ELEMENT  27142	6. CATEGORY CODE  141-753	7. RPSUID/PROJECT NUMBER  2470/MSET153514	8. PROJECT COST (\$000)  41,000	
<p>will include all AMU functions, low observable personnel space, and weapons &amp; release systems storage. The weapons and release system storage area requires a gantry crane for loading and unloading weapon system crates.</p> <p><u>CURRENT SITUATION:</u> Currently there are two combined squadron operations and AMU facilities on RAF Lakenheath. One of these serves the 492nd and 494th Fighter Squadrons for F-15E squadron operations and maintenance. The other combined squadron operations and AMU facility is currently being used by the 493rd Fighter Squadron for 18 PAA F-15Cs. This facility will be vacated when the F-15Cs leave RAF Lakenheath however, this facility would require a 749 SM addition to accommodate a 24 PAA F-35 squadron. A large portion of this additional space would be required to be constructed to Special Access Program Facility (SAP-F) criteria; requiring substantial renovation. Additionally, the existing squadron operations/AMU facility is not large enough to accept installation of the F-35 Autonomic Logistics Information System (ALIS). Due the cost to modify existing facilities to accommodate F-35A use, both squadrons coming to RAF Lakenheath will require new squadron operations and AMU facilities. There is not currently a space to store F-35 weapons release systems on RAF Lakenheath.</p> <p><u>IMPACT IF NOT PROVIDED:</u> There is not currently enough space on RAF Lakenheath to operate squadron operations and AMUs for four 24 PAA squadrons. Without this project there will not be any available space for the two new F-35A squadrons arriving in FY21.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope in Air Force Manual 32-1084 "Facility Requirements." An analysis of reasonable alternatives was accomplished comparing status quo, renovation and new construction. This analysis indicated that new construction is the most cost effective means to meet mission requirements. This project is not within an established NATO capability package for common funding, nor is it expected to become eligible. Current NATO policy indicates that this item will continue to be a user responsibility. It should be noted that numerous facilities on RAF Lakenheath with category codes 141-753 and 211-154 are scheduled for demolition by other projects. 48th Fighter Wing Base Civil Engineer: 0044-1638-522100. Squadron Operations: 4352 SM = 46,845 SF; AMU: 3663 SM = 39,428 SF; Weapons and Release System Storage: 465 SM = 5005 SF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM		4. PROJECT TITLE F-35A SQUADRON OPERATIONS AND AMU	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 141-753	7. PROJECT NUMBER 2470/MSET153514	8. PROJECT COST (\$000) 41,000
12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Project to be accomplished by design-build procedures (2) Basis: (a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used - (3) All Other Design Costs 1,640 (4) Construction Contract Award 18 FEB (5) Construction Start 18 MAR (6) Construction Completion 20 JUN (7) Energy Study/Life-Cycle analysis was/will be performed YES			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
COMMUNICATIONS	3080	20	494
FURNITURE, FIXTURES AND EQUIP	3400	20	2,154

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1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION WORLDWIDE UNSPECIFIED  VARIOUS LOCATIONS		4. PROJECT TITLE UNSPECIFIED MINOR MILITARY CONSTRUCTION			
5. PROGRAM ELEMENT  91211	6. CATEGORY CODE  962-000	7. RPSUID/PROJECT NUMBER  /PAYZ180003	8. PROJECT COST (\$000)  31,400		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					31,400
MILCON MINOR CONSTRUCTION		LS			( 31,400 )
SUPPORTING FACILITIES					0
SUBTOTAL					<u>31,400</u>
TOTAL CONTRACT COST					<u>31,400</u>
TOTAL REQUEST					31,400
TOTAL REQUEST (ROUNDED)					31,400
10. Description of Proposed Construction:					
11. Requirement:      Adequate:      Substandard:					
PROJECT: As required.					
REQUIREMENT: Minor construction projects authorized by 10 U.S. Code 2805 are military construction projects with an estimated funded cost of more than \$1,000,000 and equal or less than \$3,000,000 (\$4,000,000 for projects solely to correct a life, health, safety deficiency). This authority provides a means of accomplishing projects that are not identified but which are anticipated to arise during FY18.					
Included would be projects to support new mission requirements, new equipment, and other essential support to Air Force missions.					

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1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION WORLDWIDE UNSPECIFIED  VARIOUS LOCATIONS		4. PROJECT TITLE PLANNING AND DESIGN			
5. PROGRAM ELEMENT  91211	6. CATEGORY CODE  961-000	7. RPSUID/PROJECT NUMBER  /PAYZ180002	8. PROJECT COST (\$000)  97,852		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					97,452
PLANNING AND DESIGN (91211)		LS			( 97,452 )
PLANNING AND DESIGN (12325)		LS			( 400 )
SUPPORTING FACILITIES					0
SUBTOTAL					<u>97,852</u>
TOTAL CONTRACT COST					<u>97,852</u>
TOTAL REQUEST					97,852
TOTAL REQUEST (ROUNDED)					97,852
10. Description of Proposed Construction:					
11. Requirement:      Adequate:      Substandard:					
PROJECT: As required.					
REQUIREMENT: These planning and design funds are required to complete the design of facilities in the FY19 Military Construction Program, initiate design of facilities in the FY20 Military Construction Program, and accomplish planning and design for major and complex technical projects with long lead-times to be included in subsequent Military Construction programs. These funds may be used for value engineering and for support of the design and construction management of projects that are funded by foreign governments and for design of classified and special programs. The funds may also be used for developing the Tri-Services Cost Estimating Guide and Unified Facilities Criteria.					

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Department of the Air Force

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# **Overseas Contingency Operations Military Construction Program**

**Fiscal Year (FY) 2018  
Request**

**Justification Data Submitted to Congress  
May 2017**

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**DEPARTMENT OF THE AIR FORCE  
FISCAL YEAR 2018 OVERSEAS CONTINGENCY OPERATIONS REQUEST  
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**DEPARTMENT OF THE AIR FORCE  
OVERSEAS CONTINGENCY OPERATIONS MILITARY CONSTRUCTION FISCAL YEAR 2018  
PROGRAM SUMMARY**

	<b>Authorization Request <u>(\$000s)</u></b>	<b>Appropriation Request <u>(\$000s)</u></b>
<b>Military Construction</b>		
<b>Major Construction</b>	<b>165,700</b>	<b>165,700</b>
<b>Planning and Design (10 USC § 2807)</b>		<b>41,500</b>
<b>Total Military Construction</b>	<b>165,700</b>	<b>207,200</b>

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**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2018  
INDEX - OVERSEAS CONTINGENCY OPERATIONS  
(DOLLARS IN THOUSANDS)**

COUNTRY	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
JORDAN	Muwaffag Salti Air Base	OIR: MSAB Development	143,000	143,000
		Muwaffag Salti Air Base TOTAL:	143,000	143,000
		JORDAN TOTAL:	143,000	143,000
TURKEY	Incirlik Air Base	OIR: Relocate Base Main Access Control Point	14,600	14,600
		OIR: Replace Perimeter Fence	8,100	8,100
		Incirlik Air Base TOTAL:	22,700	22,700
		TURKEY TOTAL:	22,700	22,700
		Planning and Design TOTAL:	0	41,500
		OVERSEAS CONTINGENCY OPERATIONS TOTAL:	165,700	207,200

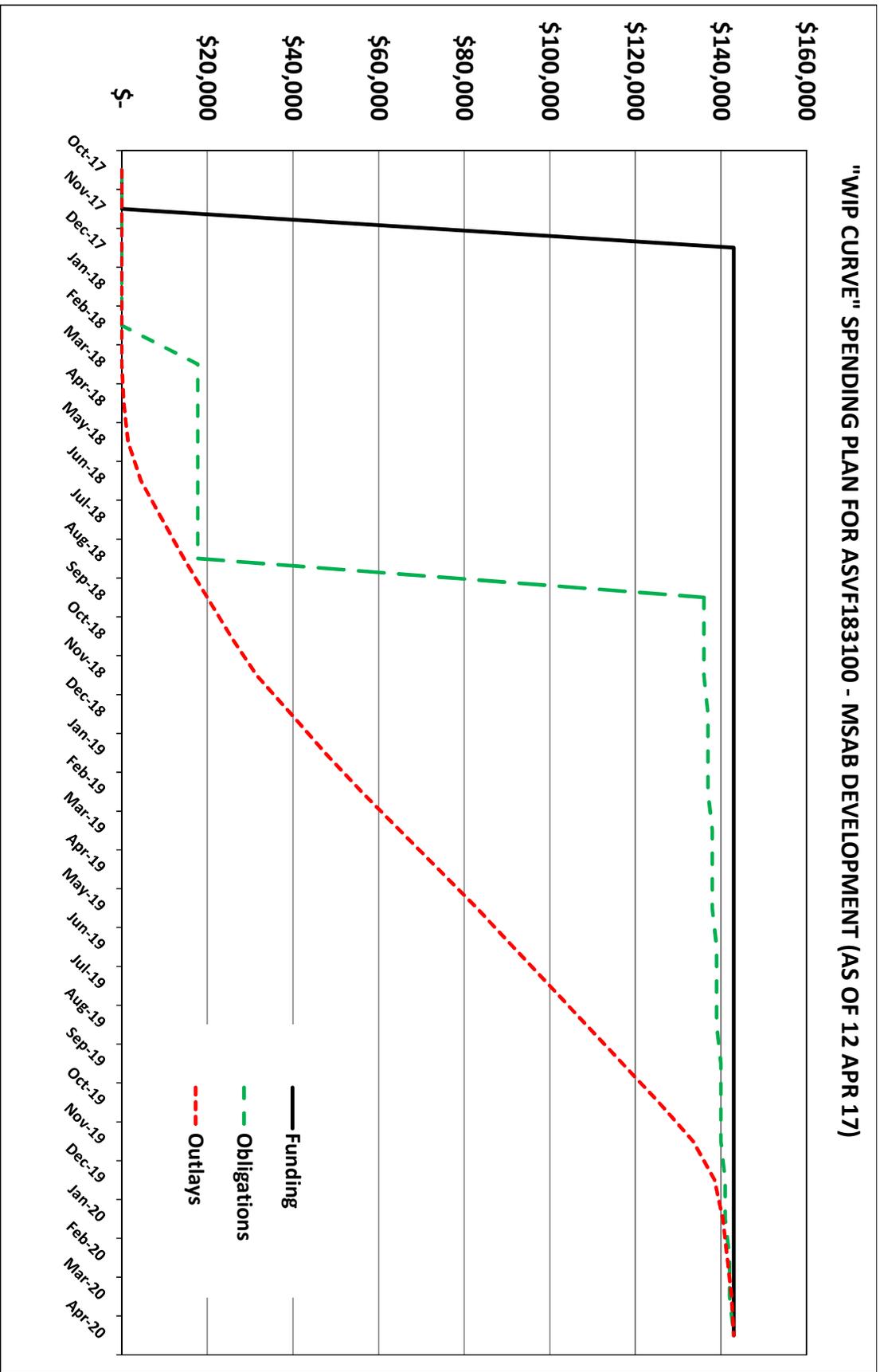
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1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION MUWAFFAG SALT I AIR BASE (MSAB)  JORDAN		4. PROJECT TITLE OIR: MSAB DEVELOPMENT			
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  113-321	7. RPSUID/PROJECT NUMBER  /ASVF183100	8. PROJECT COST (\$000)  143,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					82,939
AIRFIELD PAVEMENTS (113-321)		SM	222,700	237	( 52,735 )
ISR SHELTERS (141-181)		LS			( 10,000 )
CAS REVETMENTS/SUNSHADES (211-194)		LS			( 11,168 )
DORMITORY (721-312)		SM	4,850	1,650	( 8,003 )
CARGO MARSHALLING YARD FACILITY (141-782)		SM	470	2,200	( 1,034 )
SUPPORTING FACILITIES					45,093
HIGH MAST LIGHTING		LS			( 1,500 )
PAVEMENTS (ROADS, PARKING & YARD)		LS			( 4,786 )
ENTRY CONTROL POINTS		LS			( 2,340 )
WATER DISTRIBUTION SYSTEM		LS			( 11,356 )
WASTEWATER COLLECTION SYSTEM		LS			( 3,032 )
ELECTRICAL DISTRIBUTION SYSTEM		LS			( 6,241 )
COMMUNICATIONS DUCTBANK		LS			( 1,398 )
SITE IMPROVEMENTS & STORM DRAINAGE		LS			( 14,441 )
SUBTOTAL					128,033
CONTINGENCY (5.0%)					6,402
TOTAL CONTRACT COST					134,434
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					8,738
TOTAL REQUEST					143,172
TOTAL REQUEST (ROUNDED)					143,000
10. Description of Proposed Construction: Construct 222,700 SM of medium-load aircraft pavement apron space and taxiways, a 4,850 SM 276-person dormitory, and a 470 SM cargo marshalling yard facility. The aprons will have associated airfield markings, grounding/tie-down points, airfield edge lighting, high-mast lighting and fire protection systems. The dormitory and cargo marshalling facility will have associated marshalling yard, fencing, access roads, and parking. The Life Support Area (LSA) and flightline area infrastructure will have associated electrical, combined domestic/fire water system, and sewer utilities along with communication and road infrastructure.					
11. Requirement: 222700 SM Adequate: 0 SM Substandard: 0 SM PROJECT: MSAB DEVELOPMENT REQUIREMENT: USCENTCOM requires at least one counter terrorist operational hub in the Levant with secured access and infrastructure to support ongoing contingency operations including Operation INHERENT RESOLVE. Muwaffaq-Salti Air Base (MSAB) has been identified as the counter terrorist operational hub and thus has a requirement for apron space for Airlift (2 x C-17), CAS/ISR (36 x fighter & 30 x ISR), and PR/SOF (2 x C-130J-30 & 4 x CV-22) operations. There is also a					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION MUWAFAG SALT AIR BASE (MSAB)  JORDAN			4. PROJECT TITLE OIR: MSAB DEVELOPMENT	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  113-321	7. RPSUID/PROJECT NUMBER  /ASVF183100	8. PROJECT COST (\$000)  143,000	
<p>requirement for associated marshalling yard and facility for airlift ops. Utility infrastructure includes electrical, combined domestic/fire water system, sewer, and communications plus a road network that are required to support both the Life Support Area (LSA) as well as the Flightline Area. Additionally, billeting space is required.</p> <p>CURRENT SITUATION: Currently, MSAB has extremely limited ramp space to support fighter/ISR operations and zero dedicated space to support cargo and personnel recovery operations. The aprons are required to support an increase in cargo &amp; personnel into Jordan as well as increased operations to counter ISIL. Additionally, support facilities for the aprons (Flightline Area) do not exist and infrastructure are required to support future missions projected for MSAB. The current LSA was designed as an exercise site for a contingent of up to 300 personnel. This site plus expansion efforts using WRM equipment is currently supporting four to five times what the space was originally intended to support and the population continues to grow. The exercise site is overwhelmed and personnel are billeted under surge conditions in temporary facilities and tents. Additionally, the existing LSA resides within Explosive Quantity-Distance Safety (EQSD) arcs from the current operational areas putting our military personnel at an extreme life, health, and safety risk. To alleviate these risks, to support the influx of personnel, and to provide adequate facilities for a contingency operations population, a new LSA to include supporting facilities and infrastructure are required.</p> <p>IMPACT IF NOT PROVIDED: If this project is not funded, the commanders in Jordan will face unacceptable risk sustaining additional forces due to lack of adequate aircraft parking capacity as well as insufficient logistics concept of operations. Personnel will continue to be at extreme risk due to the LSA being within explosive safety arcs from the current operations. Additionally, the current LSA is not large enough to support the required population.</p> <p>ADDITIONAL: All required physical security and anti-terrorism / force protection measures will be incorporated. Sustainable principles will be integrated into the development, design, and construction of the project. Joint use potential will be incorporated where feasible. This project has been coordinated with the installation physical security plan, and all physical security measures are included. Alternative methods of meeting this requirement have been explored during project development to include the status quo, renovation, upgrade/removal, and new construction. New construction is the only feasible option to meet the requirement. As a result, we plan to seek a waiver to the economic analysis. POC: 803-717-7055. (Airfield Pavements: 222,700 SM = 2,397,121 SF; Dormitory: 4,850 SM = 52,205 SF; Cargo Yard Facility: 470 SM = 4,381 SF).</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION MUWAFFAG SALT AIR BASE (MSAB)  JORDAN		4. PROJECT TITLE OIR: MSAB DEVELOPMENT	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 113-321	7. PROJECT NUMBER /ASVF183100	8. PROJECT COST (\$000) 143,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			01-NOV-16
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2017			
* (d) Date 35% Designed			
(e) Date Design Complete			02-JAN-18
(f) Energy Study/Life-Cycle analysis was/will be performed			NO
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			0
(b) All Other Design Costs			0
(c) Total			0
(d) Contract			0
(e) In-house			0
(4) Construction Contract Award			18 JUN
(5) Construction Start			18 JUL
(6) Construction Completion			20 JAN
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
	PROCURING	FISCAL YEAR	COST
EQUIPMENT NOMENCLATURE	APPROPRIATION	APPROPRIATED OR REQUESTED	(\$000)
COMMUNICATIONS EQUIPMENT	3400	2019	725
FURNISHINGS	3400	2019	503

"WIP CURVE" SPENDING PLAN FOR ASVF183100 - MSAB DEVELOPMENT (AS OF 12 APR 17)



<b>1. COMPONENT</b> AIR FORCE			<b>FY 2018 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE (YYYYMMDD)</b> 20160930			
<b>3. INSTALLATION AND LOCATION</b> INCIRLIK AIR BASE TURKEY						<b>4. COMMAND</b> UNITED STATES AIR FORCES IN EUROPE			<b>5. AREA CONSTRUCTION COST INDEX</b> 1			
<b>6. PERSONNEL</b>			<b>(1) PERMANENT</b>			<b>(2) STUDENTS</b>			<b>(3) SUPPORTED</b>			<b>TOTAL</b>
			OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-Sep-16			104	976	941				10	183	55	2,269
b. END FY 2022			101	953	942				9	180	55	2,240
<b>7. INVENTORY DATA (\$000)</b>												
a. TOTAL ACREAGE			3,427									
b. INVENTORY TOTAL AS OF 30-Sep-16												1,298,965
c. AUTHORIZATION NOT YET IN INVENTORY												36,666
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2018)												48,697
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)												0
f. REMAINING DEFICIENCY												130,200
g. GRAND TOTAL												1,514,528
<b>8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)</b>												
a. CATEGORY												
<b>(1) CODE</b>	<b>(2) PROJECT TITLE</b>					<b>(3) SCOPE</b>			<b>b. COST (\$000)</b>		<b>c. DESIGN STATUS</b>	
721-312	Dormitory - 216 PN					8,208 SM			25,997		(1) START	(2) COMPLETE
730-839	OIR: Relocate Base Main Access Control Point					1,557 SM			14,600		04/17	05/18
872-245	OIR: Replace Perimeter Fence					18,604 LM			8,100		N/A	
<b>TOTAL</b>									<b>48,697</b>			
<b>9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2019 - FY 2022)</b>												
<b>FUTURE PROJECTS TOTAL 0</b>												
<b>R&amp;M UNFUNDED REQUIREMENT (\$M) TOTAL 9.1</b>												
<b>10. MISSION OR MAJOR FUNCTIONS</b> Incirlik Air Base is home to the 39th Air Base Wing. The mission of the 39th Air Base Wing is to provide full-spectrum, world-class forward operating base support to expeditionary forces while developing the professional talents of our men and women.												
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022)</b>												
a. Air Pollution												
b. Water Pollution												
c. Occupational Safety and Health												
d. Other Environmental												
<b>OUTSTANDING DEFICIENCIES TOTAL 0</b>												

1. COMPONENT AIR FORCE		FY2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
3. INSTALLATION AND LOCATION INCIRLIK AIR BASE, TURKEY			4. PROJECT TITLE OIR: RELOCATE BASE MAIN ACCESS CONTROL POINT		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 730-839	7. PROJECT NUMBER LJYC203002		8. PROJECT COST (\$000) <b>14,600</b>	
<b>9. COST ESTIMATES</b>					
<b>ITEM</b>		<b>U/M</b>	<b>QUANTITY</b>	<b>UNIT COST</b>	<b>COST (\$000)</b>
<b>PRIMARY FACILITIES</b>					<b>7,201</b>
Gatehouse (730-839)		SM	40	5,285.84	(211)
ID Check Booths (730-839)		SM	60	11,167	(670)
Search Area Canopy (730-839)		SM	1,330	939.46	(1,249)
Overwatch (730-839)		SM	4	17,136	(69)
Pedestrian Search Building (730-839)		SM	47	6,297.32	(296)
Access Control Point (730-839)		LS			(4,295)
Visitor Control Center (730-832)		SM	84	4,173.28	(351)
Sustainability/Energy Measures		LS			(60)
<b>SUPPORTING FACILITIES</b>					<b>5,382</b>
Utilities		LS			(2,023)
Standby Generator 100 kW		EA	1	54,749.23	(55)
Site Improvements		LS			(1,598)
Information Systems Infrastructure		LS			(656)
Demolish Houses		EA	24	14,583.33	(350)
Demolish Perimeter Road		LS			(200)
Reconstruct Perimeter Road		LS			(500)
<b>SUBTOTAL</b>					<b>12,583</b>
Contingency (5%)					629
<b>ESTIMATED CONTRACT COST</b>					<b>13,212</b>
SUPERVISION, INSPECTION, and OVERHEAD (SIOH) (6.5%)					859
DESIGN/BUILD – DESIGN COST (4% of Subtotal)					528
<b>TOTAL REQUESTED</b>					<b>14,599</b>
<b>TOTAL REQUESTED (ROUNDED)</b>					<b>14,600</b>
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					841
<b>10. Description of Proposed Construction:</b>					
Construct an Entry Control Facility (ECF) at Incirlik Air Base, Turkey to enhance air base control and defense in light of additional traffic requirements and a higher threat environment associated with Operation INHERENT RESOLVE (OIR). This project is to control vehicular and pedestrian access to the air base. The project includes an ID Check Area with guard booths, three ID inbound check lanes, two outbound check lanes, Gatehouse, Canopy, small air-conditioned office for short-term housing of military working dogs, Privately Owned Vehicle (POV) search area, Visitors Control Center, overwatch position, entry and exit lanes and roadways, turn around lanes, active and passive vehicle barriers, and comprehensive control and electronic security systems, Closed Circuit Television (CCTV) system, information and					

1. COMPONENT AIR FORCE	FY2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION AND LOCATION INCIRLIK AIR BASE, TURKEY		4. PROJECT TITLE OIR: RELOCATE BASE MAIN ACCESS CONTROL POINT	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 730-839	7. PROJECT NUMBER LJYC203002	8. PROJECT COST (\$000) <b>14,600</b>

communications systems, back-up emergency power and Uninterrupted Power Supply (UPS), fire protection and alarm systems, Intrusion Detection System (IDS) installation, lighting, traffic control devices, and a supervisory control system for energy management. Sustainable Design and Development (SDD) and Energy Policy Act of 2005 (EPA05) features will be provided.

Supporting facilities include site development; utilities and connections - electric, lighting, water, sewer and gas; paving, parking, walks, curbs and gutters; storm drainage; information systems; landscaping; site improvements and signage. Heating, ventilation and air conditioning will be provided for the Gatehouse, Visitor Control Center, standalone electrical/communication/kennel building, and Guard Booth. Plumbing will be installed for latrines in the gatehouse, and Visitor Control Center (VCC), water coolers, sink in break room, janitor's closet, and water bib in kennel.

Comprehensive building and furnishings related interior design services are required. Project includes demolition and relocation of existing roadway and paved parking and to comply with Low Impact Development (LID). All structures and systems included in this project will be designed and constructed in strict compliance with all applicable local, regional, and Host Nation laws and regulations.

The facility will be compatible with applicable Department of Defense (DoD), Air Force, and host-nation design standards. In addition, local materials and construction techniques shall be used where required and/or appropriate. Design and construction efforts will be executed in accordance with the host-nation agreements, including construction and environmental permits.

The facility will be designed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-202-01, Host Nation Facilities in Support of Military Operations. This project will comply with DoD antiterrorism requirements per UFC 4-010-01. This project will also use drawings from the AFCEC Facilities Dynamic Prototypes Design and the Army Standard Design for Access Control Points.

11. REQ: 1,630 SM

ADQT: 0 SM

SUBSTD: 138 SM

**PROJECT:**

Construct a new main gate complex at Incirlik Air Base, adequately sized and configured to defeat vehicle and pedestrian threats and ensure base safety.

**REQUIREMENT:**

Construct a new Main Entry Control Point that is configured to provide proper protection to guards, pedestrian and vehicular traffic, and base personnel in order to reduce risk of security breaches negatively impacting OIR. Facility will be designed in accordance with UFC 4-022-01, Security Engineering: Engineering Entry Control Facilities/Access Control Points; UFGS 34 41 26.00 10, Access Control Points Control Systems; UFGS 34 70 13.19 Active Vehicle Barriers and Surface Deployment and Distribution Command Transportation Engineering Agency (SDDC-TEA) Pamphlet 55-15. Due to limited space surrounding the main gate and increased need for access for contractors and Host Nation personnel during the morning and afternoon hours, a larger and more convenient traffic flow is required. Space and configuration requirements are not currently met with existing facility. ECF will be designed to defeat the vehicle and pedestrian threats prescribed in the UFC 4-022-01, Security Engineering: Engineering Entry Control Facilities/Access Control Points, and to ensure safety of motorist, pedestrians, and guards. ECF will have both passive and active vehicle barriers forming a contiguous perimeter around the ECF. Passive barriers will be capable of preventing penetration of a threat vehicle. Active vehicle barriers, controlled by ECF guards, will be utilized in each inbound and outbound lane to permit or deny vehicle and pedestrian access. An active vehicle barrier safety regime will be utilized that conforms to one of the Surface Deployment and Distribution Command – Transportation and Engineering Agency (SDDC-TEA) approved safety protocols. ECFs will have an identity check area within the access control zone where guards or automated

1. COMPONENT AIR FORCE	FY2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION AND LOCATION INCIRLIK AIR BASE, TURKEY		4. PROJECT TITLE OIR: RELOCATE BASE MAIN ACCESS CONTROL POINT	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 730-839	7. PROJECT NUMBER LJYC203002	8. PROJECT COST (\$000) <b>14,600</b>

equipment verify pedestrians, vehicles, and vehicular occupant's identifications; perform limited searches; and validate authorizations to enter the installation. The identity check area will include: canopy, entry and exit lanes, traffic islands, guard booths, gatehouse, standalone communication/electrical/kennel building, lighting, turn around lanes. EFC will also have a VCC, Pedestrian ECF, and bus lanes for on and off-base bus systems. The ECF's gatehouse will include the master controls for all the Active Vehicle Barriers. The Gatehouse will be sized to accommodate the ECF guards and their activities. ECFs will have an area separated from and easily accessible to the identity check area and obscured from casual observation from outside the Installation to provide addition inspections. The check area facility will facilitate guards' observation of vehicle occupants. ECFs will have strategically located area suitable for overwatch positions that includes controls for the final active vehicle barriers. The base requires a building for processing visitors. The building will be sized for the effective throughput of the expected number of visitors.

**CURRENT SITUATION:**

Existing main Entry Control Facility for the base is degrading and not properly configured to provide proper protection for pedestrian and vehicle passage. Configuration does not have the proper final denial barrier distance. Currently, traffic during the morning and afternoon creates long wait times to entry and exiting of the base, which poses threat to the pedestrians and vehicle travel. The base has been in FPCON Charlie since 28 July 2015 and was in FPCON Delta for a total of 31 days in 2016. Security breaches have increased since the base began Operation INHERENT RESOLVE support. In light of the relatively quick and drastic deterioration of the security situation, families have been sent home from Incirlik AB and the standard tour length has been converted to a 12 month unaccompanied tour.

**IMPACT IF NOT PROVIDED:**

If not funded, the main gate remains vulnerable to hostile penetration in the midst of contingency operations and an increased terrorist threat. Continued use of a degrading and improperly configured Entry Control Facility will not provide the proper safety protection to the pedestrian and vehicular traffic. In addition, the improperly sized Entry Control Facility does not provide necessary reaction time to prevent threat vehicles to gain access to the base, which will pose significant vulnerability to the base. Additionally, the Entry Control Point does not have proper safety facilities for the guards to properly scan vehicles for entry or exit of the base, placing the guards at an increased risk during an attack or of getting struck by an errant vehicle.

**ADDITIONAL:**

This project meets the criteria/scope specified in Air Force Manual (AFMAN) 32-1084, *Facility Requirements*. The UFC 4-701-01, DoD Pricing Guide, USACE PAX guidance costs, and RSMMeans were used to develop the estimate for this project. Current NATO policy indicates that this item will continue to be a user responsibility. Force protection measures are considered IAW USAF Installation Protection Guide.

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

1. COMPONENT AIR FORCE	FY2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION AND LOCATION INCIRLIK AIR BASE, TURKEY		4. PROJECT TITLE OIR: RELOCATE BASE MAIN ACCESS CONTROL POINT	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 730-839	7. PROJECT NUMBER LJYC203002	8. PROJECT COST (\$000) <b>14,600</b>

**12. SUPPLEMENTAL DATA:**

a. Estimated Design Data:

- (1) Project to be accomplished by design- build procedures
- (2) Basis:
  - (a) Standard or Definitive Design - No
  - (b) Where Design Was Most Recently Used
- (3) All other design costs (\$000) \$000
- (4) DD Form 1391 Submittal 16 DEC
- (5) Design Instruction and Predesign Funding 16 DEC
- (6) DB RFP Architect-Engineer (AE) Solicitation 17 MAR – 17 MAY
- (7) DB RFP 17 JUN – 18 MAR
- (8) DB Solicitation 18 APR – 18 JUL
- (9) DB Award 18 AUG
- (10) DB Construction Start 18 SEP
- (11) Energy Study/Life Cycle Analysis was/will be performed No

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
COMMUNICATIONS EQUIPMENT	3400	2019	227
FURNISHINGS	3400	2019	429
UPS	3080	2019	185

1. COMPONENT AIR FORCE	FY2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION AND LOCATION INCIRLIK AIR BASE, TURKEY		4. PROJECT TITLE OIR: REPLACE PERIMETER FENCE	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 872-245	7. PROJECT NUMBER LJYC183004	8. PROJECT COST (\$000) 8,100

9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
<b>PRIMARY FACILITIES</b>				<b>6,851</b>
Boundary Fence (872-245)	LM	18,604	276.10	(5,137)
Existing Fence Removal	LM	35,130	48.75	(1,714)
<b>SUPPORTING FACILITIES</b>				<b>130</b>
Storm Drainage	LS			(64)
Site Improvements	LS			(66)
<b>SUBTOTAL</b>				<b>6,981</b>
Contingency (5%)				349
<b>ESTIMATED CONTRACT COST</b>				<b>7,330</b>
SUPERVISION, INSPECTION, and OVERHEAD (SIOH) (6.5%)				477
DESIGN/BUILD – DESIGN COST (4% of Subtotal)				293
<b>TOTAL REQUESTED</b>				<b>8,100</b>
<b>TOTAL REQUESTED (ROUNDED)</b>				<b>8,100</b>

**10. Description of Proposed Construction:**

The Air Force requires a new base perimeter fence in order to safeguard Operation INHERENT RESOLVE personnel and reduce the risk to mission accomplishment. Replace approximately 11.5 miles of base perimeter fence which forms the entire operational perimeter boundary of Incirlik Air Base, Turkey. The fence will be Type A fence consisting of chain link, 2.17 m (7 ft) high fencing, surmounted by 3 strands of barbed wire, angled outward at 45 degrees for a total height of 2.4 m (8 ft) per UFC 4-022-03 and AFMAN 32-1084, including signage. Perimeter fencing covers areas of irregular terrain and culverts, etc. Fence will utilize existing concrete base walls (approx 610 meters) as currently installed in portions of the perimeter fence area. Boundary fence will include 7 vehicle gates, to all for maintenance access to the fence line from within the Air Base and to allow clearing of brush and debris for security and guard tower visibility. Demolish current degraded and deteriorated perimeter fences, allowing full access to maintain and clear around new fence line. The facility is intended to be compatible with applicable Department of Defense (DoD), Air Force, and host-nation design standards. In addition, local materials and construction techniques shall be used where required and/or appropriate. Design and construction efforts will be executed in accordance with the host-nation agreements, including construction and environmental permits. The facility will be designed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-202-01, Host Nation Facilities in Support of Military Operations. This project will comply with DoD antiterrorism requirements per UFC 4-010-01.

1. COMPONENT AIR FORCE	FY2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION AND LOCATION INCIRLIK AIR BASE, TURKEY		4. PROJECT TITLE OIR: REPLACE PERIMETER FENCE	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 872-245	7. PROJECT NUMBER LJYC183004	8. PROJECT COST (\$000) 8,100
11. REQ: 18,604 LM		ADQT: 0 SM	SUBSTD: 18,604 LM
<p><b>PROJECT:</b> Replace perimeter fence with new Type A fencing (Current Mission)</p> <p><b>REQUIREMENT:</b> Maintain security of Incirlik Air Base with replacement of the current sets of deteriorated fencing with new Type A fencing consisting of chain link, 2.17m (7 ft) high fencing, surmounted by 3 strands of barbed wire, angled outward at 45 degrees for a total height of 2.4m (8 ft).</p> <p><b>CURRENT SITUATION:</b> Currently there are two fence lines (circa 1955 and 1984) around the base perimeter. The first perimeter fence was constructed in 1955, is in disrepair, and needs to be demolished. A secondary perimeter fence was installed in 1984 with a plan to remove the original fence after the secondary fence was completed; however, the Turkish Air Force decided it was best to leave the old fence in place. This has led to vegetation growing in between the fences that have reached heights that now hinders base security. In numerous areas around the perimeter there is not enough room between the fence lines to cut and maintain the grass and vegetation; these areas create potential screens for base intruders to conceal themselves from detection by security forces. Several portions of the secondary fence are also deteriorated and in substandard condition, and need to be replaced as they create weak areas for base security. There are negative JSIVA and CVAMP write-ups for the perimeter fence.</p> <p><b>IMPACT IF NOT PROVIDED:</b> Incirlik Air Base is currently in a heightened Force Protection Condition and security posture. The base has been in FPCON Charlie since 28 July 2015 and was in FPCON Delta for a total of 31 days in 2016. Security breaches have increased since the base began Operation INHERENT RESOLVE support. In light of the relatively quick and drastic deterioration of the security situation, families have been sent home from Incirlik AB and the standard tour length has been converted to a 12 month unaccompanied tour. If this project is not provided, the perimeter fence will continue to deteriorate and the vegetation growing between the base perimeter fences will continue to adversely affect base security. Heavy overgrowth along with the natural terrain features will continue to diminish the line of sight detection for the perimeter security towers, creating blind spots along the base perimeter and leaving the installation subject to infiltration without detection. Without this project, the base is vulnerable to attack, and 39th Air Base Wing support to Operation INHERENT RESOLVE and other contingency missions will be jeopardized.</p> <p><b>ADDITIONAL:</b> This project meets the criteria/scope specified in Air Force Manual (AFMAN) 32-1084, <i>Facility Requirements</i>. The UFC 3-701-01, DoD Pricing Guide, USACE PAX guidance costs, and RSMMeans were used to develop the estimate for this project. Current NATO policy indicates that this item will continue to be a user responsibility. Force protection measures are considered IAW USAF Installation Protection Guide.</p> <p><b>JOINT USE CERTIFICATION:</b> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION AND LOCATION INCIRLIK AIR BASE, TURKEY		4. PROJECT TITLE OIR: REPLACE PERIMETER FENCE	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 872-245	7. PROJECT NUMBER LJYC183004	8. PROJECT COST (\$000) 8,100

**12. SUPPLEMENTAL DATA:**

a. Estimated Design Data:

- (1) Project to be accomplished by design-build procedures
- (2) Basis:
  - (a) Standard or Definitive Design - No
  - (b) Where Design Was Most Recently Used
- (3) All other design costs (\$000) \$000
- (4) DD Form 1391 Submittal 16 DEC
- (5) Design Instruction and Predesign Funding 16 DEC
- (6) DB RFP Architect-Engineer (AE) Solicitation 17 MAR – 17 MAY
- (7) DB RFP 17 JUN – 18 MAR
- (8) DB Solicitation 18 APR – 18 JUL
- (9) DB Award 18 AUG
- (10) DB Construction Start 18 SEP
- (11) Energy Study/Life Cycle Analysis was/will be performed No

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

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION WORLDWIDE UNSPECIFIED  VARIOUS LOCATIONS		4. PROJECT TITLE OCO PLANNING AND DESIGN			
5. PROGRAM ELEMENT  91211	6. CATEGORY CODE  961-000	7. RPSUID/PROJECT NUMBER  /PAYZ1800002I	8. PROJECT COST (\$000)  41,500		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					41,500
PLANNING AND DESIGN		LS			( 41,500 )
SUPPORTING FACILITIES					0
SUBTOTAL					<u>41,500</u>
TOTAL CONTRACT COST					<u>41,500</u>
TOTAL REQUEST					41,500
TOTAL REQUEST (ROUNDED)					41,500
10. Description of Proposed Construction:					
11. Requirement:      Adequate:      Substandard:					
PROJECT: As required.					
<p>REQUIREMENT: These Overseas Contingency Operations planning and design funds are required to complete the design of facilities in the United States Central Command in the FY19 Military Construction Program, initiate design of facilities in the FY20 Military Construction Program, and accomplish planning and design for major and complex technical projects with long lead-times to be included in subsequent Military Construction programs. These funds may be used for value engineering and for support of the design and construction management of projects that are funded by foreign governments and for design of classified and special programs. Specific projects supported, among other unspecified projects, are the planning requirements associated with the planned build-up of Muwaffaq-Salti Air Base, kingdom of Jordan, and the host-nation-funded construction effort at Al Dhafra Air Base, United Arab Emirates. These funds will be used to support Operations FREEDOM'S SENTINEL and INHERENT RESOLVE. The funds may also be used for developing the Tri-Services Cost Estimating Guide and Unified Facilities Criteria.</p>					

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Department of the Air Force

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# **European Reassurance Initiative Military Construction Program**

**Fiscal Year (FY) 2018  
Request**

**Justification Data Submitted to Congress  
May 2017**

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**DEPARTMENT OF THE AIR FORCE  
EUROPEAN REASSURANCE INITIATIVE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2018  
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**DEPARTMENT OF THE AIR FORCE  
 EUROPEAN REASSURANCE INITIATIVE MILITARY CONSTRUCTION FISCAL YEAR 2018  
 PROGRAM SUMMARY**

	<b>Authorization Request <u>(\$000s)</u></b>	<b>Appropriation Request <u>(\$000s)</u></b>
<b>Military Construction</b>		
<b>Major Construction</b>	<b>214,200</b>	<b>214,200</b>
<b>Planning and Design (10 USC 2807)</b>		<b>56,630</b>
<b>Total Military Construction</b>	<b>214,200</b>	<b>270,830</b>

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**DEPARTMENT OF THE AIR FORCE  
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2018  
INDEX - EUROPEAN REASSURANCE INITIATIVE  
(DOLLARS IN THOUSANDS)**

COUNTRY	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
ESTONIA	Amari Air Base	ERI: POL Capacity Phase II	4,700	4,700
		ERI: Tactical Fighter Aircraft Parking Apron	9,200	9,200
		Amari Air Base TOTAL:	13,900	13,900
		ESTONIA TOTAL:	13,900	13,900
HUNGARY	Keckskemet Air Base	ERI: Increase POL Storage Capacity	12,500	12,500
		ERI: Construct Parallel Taxiway	30,000	30,000
		ERI: Airfield Upgrades	12,900	12,900
		Keckskemet Air Base TOTAL:	55,400	55,400
HUNGARY TOTAL:	55,400	55,400		
ICELAND	Keflavik Airport	ERI: Airfield Upgrades	14,400	14,400
		Keflavik Airport TOTAL:	14,400	14,400
		ICELAND TOTAL:	14,400	14,400
LATVIA	Lielvarde Air Base	ERI: Expand Strategic Ramp Parking	3,850	3,850
		Lielvarde Air Base TOTAL:	3,850	3,850
		LATVIA TOTAL:	3,850	3,850
LUXEMBOURG	Sanem Site	ERI: ECAOS Deployable Airbase System Storage	67,400	67,400
		Sanem Site TOTAL:	67,400	67,400
		LUXEMBOURG TOTAL:	67,400	67,400
NORWAY	Rygge Air Station	ERI: Replace/Expand Quick Reaction Alert Pad	10,300	10,300
		Rygge Air Station TOTAL:	10,300	10,300
		NORWAY TOTAL:	10,300	10,300
ROMANIA	Campia Turzii Air Base	ERI: Upgrade Utilities Infrastructure	2,950	2,950
		Campia Turzii Air Base TOTAL:	2,950	2,950
		ROMANIA TOTAL:	2,950	2,950
SLOVAKIA	Sliac Airport	ERI: Airfield Upgrades	22,000	22,000
		Sliac Airport TOTAL:	22,000	22,000
	Malacky Air Base	ERI: Increase POL Storage Capacity	20,000	20,000
		ERI: Airfield Upgrades	4,000	4,000
	Malacky-Kuchyna Air Base TOTAL:	24,000	24,000	
	SLOVAKIA TOTAL:	46,000	46,000	
	Planning and Design TOTAL:	0	56,630	
	EUROPEAN REASSURANCE INITIATIVE TOTAL:	214,200	270,830	

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<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> Ämari Air Base, Estonia		<b>4. PROJECT TITLE</b> ERI: POL Capacity Phase II	
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 411-135	<b>7. PROJECT NUMBER</b> EEEI180001	<b>8. PROJECT COST (\$000)</b> 4,700

capacity is required to provide the necessary infrastructure for US and NATO users to safely and efficiently meet air operations and mobility requirements in ongoing and future contingency operation plans.

**CURRENT SITUATION:** ÄAB does not have enough fuel storage capacity required to accommodate fighter, cargo, transport, and tanker aircraft during contingency operations. While the Bulk Fuel Storage (Phase 1) project will add needed capacity, it will still fall short of the identified NATO requirement of 3,750-cubic meters (990,645 gallons). Additionally, access to the fuel storage facility requires trucks to enter the main gate and travel through the cantonment area of the base, including passing by a planned US-funded dormitory. This route poses a safety and security risk due to the fuel being delivered by tanker trucks provided by an off-base contractor. The fuel is either Jet-A1 or NATO F-24. Additives, such as FSII and CI, are added to generate JP-8 fuel for US aircraft. There is currently no pipeline connection and the fuel is delivered via fuel trucks. Fuel is delivered via tanker truck from the Vopak E.O.S. (bulk terminal) located at the Port of Tallinn, which is approximately 41 km (25 mi) from AAB. The Vopak terminal is supplied by railcar from the AB Mazeikiu Nafta Terminal located 600 km (373 mi) away in Lithuania. Stocks of AVGAS/100LL are provided by Shell Finland and ferried across the Baltic Sea from Finland. Jet Fuel is procured through the Estonian Ministry of Defense, Ämari AB Logistics Center and arranged for delivery to the Base. Commercial tanker truck capacity is typically 34,000 liter (9,000 gal). Fuel is delivered regularly and as required with a 48 to 72-hour lead time. There are two offloading headers for receiving tanker trucks located in the bulk fuel storage area. These connections are positioned in such a way as to be inefficient in offloading fuel, as they are placed at an improper height. This requires use of additional pumps to offload fuel.

**IMPACT IF NOT PROVIDED:** If this project is not provided, AAB will continue to not have the required fuel storage and capability to load and unload fuel during a contingency operation, and refueling times will remain dependent on commercial contractor's ability to supply fuel in a timely manner. Fuel delivery to this remote location can be adversely impacted by the harsh weather conditions having a detrimental impact on the rapid response mission and, therefore, it is considered unacceptable. Provision for a secure and accessible fuel facility is a requirement. There is no viable alternative for this required project. Filling of the storage tanks is carried out by an off-base contractor via fuel trucks needing regular access to the Base. If access to the fuel storage area is not relocated and the offload function not moved outside the secure base perimeter, there will be continued security risk to personnel, access and facilities.

**ADDITIONAL:** This project has been coordinated with the host nation and meets host nation and Air Force requirements. The initial cost estimate was based on local construction pricing data. This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements, Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields. An Economic Analysis (EA) was not performed because there is only one method possible to accomplish the objective (IAW AFI 65-501, 1.2.2.2). An EA Waiver has been prepared. USAFE POC: USAFE-AFAFRICA/A4C, +49 (0)6371476226.

**JOINT USE CERTIFICATION:** These facilities can be used by other components on an 'as available' basis; however, the scope of the project is based on Air Force requirements. Elements of this program are not currently eligible for NATO Security Investment Program (NSIP) funding. This project will be submitted for NATO pre-financing.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO 0.9329 (2018)

<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> Ämari Air Base, Estonia		<b>4. PROJECT TITLE</b> ERI: POL Capacity Phase II	
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 411-135	<b>7. PROJECT NUMBER</b> EEEI180001	<b>8. PROJECT COST (\$000)</b> 4,700

**12. SUPPLEMENTAL DATA:**

a. Estimated Design Data:

- (1) Project to be accomplished by design-build procedures
- (2) Basis:
  - (a) Standard or Definitive Design - NO
  - (b) Where Design was Most Recently Used -
- (3) All other design costs (\$000) \$260
- (4) DD Form 1391 Submittal 16 NOV
- (5) Design Instruction and Predesign Funding 16 DEC
- (6) DB RFP Architect-Engineer (AE) Solicitation 16 DEC – 17 FEB
- (7) DB RFP 17 MAR – 17 DEC
- (8) DB Solicitation 18 JAN – 18 APR
- (9) DB Award 18 MAY
- (10) DB Construction Start 18 JUL
- (11) Energy Study/Life Cycle Analysis was/will be performed No

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

EQUIPMENT NOMENCLATURE	PROCURRING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
Telephones	3400	2020	1
Equipment	3400	2020	59



<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> Ämari Air Base, Estonia		<b>4. PROJECT TITLE</b> ERI: Tactical Fighter Aircraft Parking Apron	
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 113-321	<b>7. PROJECT NUMBER</b> EEEI180002	<b>8. PROJECT COST (\$000)</b> 9,200

accommodate 11 - 14 tactical fighter aircraft during normal operations and 13 - 16 tactical fighters during contingency operations. Parking for A-10 aircraft on the fighter-type parking apron is limited to a maximum of 10 aircraft due to wingtip clearance. Parking is not based on existing apron markings, but instead is calculated on available ramp space in accordance with applicable criteria. When C-5 aircraft are parked on the heavy aircraft apron, taxi operations on the adjacent taxiway are limited due to reduced wingtip clearance. An adequate tactical fighter parking apron capable of supporting up to 24 additional various U. S. and NATO fighter aircraft is not currently available at AAB.

IMPACT IF NOT PROVIDED: If this project is not provided, an adequate apron and taxiway capable of supporting various U. S. and NATO fighter aircraft will not be available to the DoD or its allies and partners. This limitation will impede sortie generation and flying schedules, directly limiting airfield presence and impairing airfield capability and readiness to support Operation Atlantic Resolve and the Baltic Policing mission. Therefore, responsiveness for bilateral and multilateral exercises and training missions would be compromised. This limitation will impede sortie generation and restrict flying schedules, directly limiting theater presence and impairing mission capability and readiness and contingency support to ongoing and future operations.

ADDITIONAL: This project has been coordinated with the Host Nation and meets Host Nation and Air Force requirements. The initial cost estimate was based on local construction pricing data. This project meets applicable criteria/ scope specified in Air Force Manual 32-1084, Facility Requirements, Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields. An Economic Analysis (EA) was not performed because there is only one method possible to accomplish the objective (IAW AFI 65-501, 1.2.2.2). An EA Waiver will be prepared. USAFE POC: USAFE-AFAFRICA/ A4C, +49 (0)6371476226.

JOINT USE CERTIFICATION: These facilities can be used by other components on an 'as available' basis; however, the scope of the project is based on Air Force requirements. Elements of this program are not currently eligible for NATO Security Investment Program (NSIP) funding. This project will be submitted for NATO pre-financing.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO 0.9329 (2018)

<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> Ämari Air Base, Estonia		<b>4. PROJECT TITLE</b> ERI: Tactical Fighter Aircraft Parking Apron	
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 113-321	<b>7. PROJECT NUMBER</b> EEEI180002	<b>8. PROJECT COST (\$000)</b> 9,200

**12. SUPPLEMENTAL DATA:**

a. Estimated Design Data:

- (1) Project to be accomplished by design-build procedures
- (2) Basis:
  - (a) Standard or Definitive Design - NO
  - (b) Where Design was Most Recently Used -
- (3) All other design costs (\$000) \$510
- (4) DD Form 1391 Submittal 16 NOV
- (5) Design Instruction and Predesign Funding 16 DEC
- (6) DB RFP Architect-Engineer (AE) Solicitation 16 DEC – 17 FEB
- (7) DB RFP 17 MAR – 17 DEC
- (8) DB Solicitation 18 JAN – 18 APR
- (9) DB Award 18 MAY
- (10) DB Construction Start 18 JUL
- (11) Energy Study/Life Cycle Analysis was/will be performed No

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

<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>			<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> KECSKEMÉT AIR BASE, HUNGARY		<b>4. PROJECT TITLE</b> ERI: INCREASE POL STORAGE CAPACITY		
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 124-135	<b>7. PROJECT NUMBER</b> LHKE180001	<b>8. PROJECT COST (\$000)</b> 12,500	

**9. COST ESTIMATE**

ITEM	U/M	QUANTITY	UNIT	COST (\$000)
<b>PRIMARY FACILITIES</b>				<b>10,408</b>
Fuel Tank, Cut & Cover with Connections 2,500,000 L (Site A)	L	2,500,000	2.074	5,184
Fuel Tank, Cut & Cover with Connections 2,500,000 L (Site B)	L	2,500,000	2.065	5,162
Incoming Supply Pipeline Modification	EA	1	62,512	63
<b>SUPPORTING FACILITIES</b>				<b>359</b>
Fuel Operations Building	SM	33.3	4,341.62	145
Utilities	LS	1		40
Pavements	SM	3,762	46.43	175
<b>SUBTOTAL</b>				<b>10,767</b>
Contingency (5%)				538
<b>TOTAL CONTRACT COST</b>				<b>11,305</b>
Supervision, Inspection and Overhead (6.5%)				735
Design/Build - Design Cost (4%)				431
<b>TOTAL REQUEST</b>				<b>12,471</b>
<b>TOTAL REQUEST (ROUNDED)</b>				<b>12,500</b>
<b>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</b>				2

**10. DESCRIPTION OF PROPOSED CONSTRUCTION:**

Construct an operational jet fuel storage facility using conventional design and construction methods in support of the European Reassurance Initiative (ERI). The facility is intended to be compatible with applicable NATO, DoD, Air Force, and host nation design standards. Local materials and construction techniques shall be used where cost effective. Construction includes two cut-and-cover fuel storage tanks with automatic tank gauging. Support facilities include a fuels operations building, site development, utilities and connections, lighting, lightning protection, paving, markings, storm drainage, landscaping, and signage. Facility design will be permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-202-01, Host Nation Facilities in Support of Military Operations; Bi-Strategic Commands (Bi-SC) Directive 85-5, NATO Approved Criteria and Standards for Airfields; USAFE/NATO Airfield Standard Design for Jet Fuel Storage/Dispensing Systems, including Standard Specifications B, E, and M; AC/4-M(96)001, NATO Approved Technical Criteria and Standards for POL Facilities; and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism (AT) requirements per UFC 4-010-01.

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
3. INSTALLATION, SITE AND LOCATION KECSKEMÉT AIR BASE, HUNGARY		4. PROJECT TITLE ERI: INCREASE POL STORAGE CAPACITY		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 124-135	7. PROJECT NUMBER LHKE180001	8. PROJECT COST (\$000) 12,500	

**11. REQUIREMENT:** 10,220,607 L ADEQUATE: 0 L SUBSTANDARD: 1,175,000 L  
**PROJECT:** Increase Petroleum, Oil, Lubricant (POL) Storage Capacity (ERI). (New Mission)

**REQUIREMENT:**

This project provides the POL storage capacity required by USAF in support of Operation Atlantic Resolve and supports USEUCOM European Reassurance Initiative objectives. Operation Atlantic Resolve includes bilateral and multilateral exercises and training on land, in the air, and at sea while sustaining a rotational presence throughout Europe. A key enabler for training and combat operations is substantial infrastructure at key locations to support military activities.

To support this operation, USAF requires an operational jet fuel storage facility at Kecskemét Air Base (AB) able to accommodate two NATO-equivalent Tactical Fighter Aircraft (TFA) and Strategic Transport Aircraft (STA). With limited airspace windows, all aircraft need to be fueled and ready for takeoff at the commencement of their respective flying schedules. The jet fuel storage facility will support the simultaneous refueling of TFA and STA. This facility will increase the frequency of sortie generation, directly improving airfield operations for greater responsiveness during bilateral and multilateral exercises and training with allies and partners. This project will boost airfield presence and improve airfield capability and readiness response to support Operation Atlantic Resolve.

**CURRENT SITUATION:**

The existing operational jet fuel storage facilities at Kecskemét AB are only suitable for current host nation and NATO missions. Adequate operational jet fuel storage facility capable of supporting projected U.S. and additional NATO TFA and STA exercises and contingency operations is not currently available at Kecskemét AB. Existing fuel storage meets the minimal requisite necessary for host-nation aircraft and current NATO exercises. However, the current fuel capacity is just 30 percent of the total U.S. Air Force (USAF) requirement necessary to sustain planned sortie generation. This fuel system is split between two fuel points which were constructed in 2004 and 2005. The installation adds corrosion inhibitor/lubricity enhancer and icing inhibitor additives in the pump house as part of fuel issuance to fully meet JP-8 requirements. Fuel supply is provided by a commercial supplier under contract with the Hungarian government. A diameter nominal 150-millimeter (6-inch) pipeline is routed from the supplier depot to the installation's operating storage tanks. The pipeline supports a fuel transfer rate of 80,000 liters per hour (350 gallons per minute). Kecskemét AB also has the capability to receive fuel by railcar. The installation has its own spur track, which is part of a larger national network. The installation has the capability to unload six railcars concurrently, which takes approximately 8 hours. In addition to the commercial supplier's depot and railcar receipt, there is a 5,000,000 L strategic depot located approximately 1 kilometer from Kecskemét AB. Kecskemét AB currently receives 95 percent of its fuel via pipeline and the rest by railcar. The installation may also receive fuel by truck. This, however, is not preferred because of the low capacity of transferring fuel.

**IMPACT IF NOT PROVIDED:**

If this project is not provided, an adequate operational jet fuel storage facility capable of supporting TFA and STA will not be available to the DoD or its allies and partners during contingency operations. Therefore, responsiveness for bilateral and multilateral exercises and training missions would be compromised. This limitation will impede sortie generation and restrict flying schedules, directly limiting theater presence and impairing mission capability and readiness and contingency support to Operation Atlantic Resolve within Europe, Africa, and the Middle East.

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION KECSKEMÉT AIR BASE, HUNGARY		4. PROJECT TITLE ERI: INCREASE POL STORAGE CAPACITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 124-135	7. PROJECT NUMBER LHKE180001	8. PROJECT COST (\$000) 12,500

**ADDITIONAL:**

This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements, Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields, and UFC 3-460-01, Design: Petroleum Fuel Facilities. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project and will follow the guidance detailed in the AF Sustainable Design and Development Implementing Guidance Memorandum (dated June 2, 2011) in accordance with applicable laws and Executive Orders. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSMMeans were used to develop the estimate for this project. An Economic Analysis (EA) was not performed because there is only one method possible to accomplish the objective (IAW AFI 65-501, 1.2.2.2). An EA Waiver has been prepared.

JOINT USE CERTIFICATION: These facilities can be used by other components on an 'as available' basis; however, the scope of the project is based on Air Force requirements. This project will be submitted for NATO pre-financing.

FOREIGN CURRENCY: FCF Budget Rate Used: EUROS 0.9329

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION KECSKEMÉT AIR BASE, HUNGARY		4. PROJECT TITLE ERI: INCREASE POL STORAGE CAPACITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 124-135	7. PROJECT NUMBER LHKE180001	8. PROJECT COST (\$000) 12,500

**12. SUPPLEMENTAL DATA:**

a. Estimated Design Data:

(1) Status:		
(a) Date Design Started		17 JUN
(b) Parametric Cost Estimates used to develop costs		YES
(c) Percent Complete as of 01 Feb 2018		0%
(d) Date 35% Designed*		18 MAR
(e) Date Design Complete		18 OCT
(f) Energy Study/Life-Cycle analysis was/will be performed		YES
(2) Basis:		
(a) Standard or Definitive Design -		NO
(b) Where Design was Most Recently Used -		
(3) Total Cost (c) = (a) + (b) or (d) + (e):		(1,000)
(a) Production of Plans and Specifications		0
(b) All Other Design Costs		0
(c) Total		0
(d) Contract		0
(e) In-house		0
(4) Construction Contract Award		19 APR
(5) Construction Start		19 MAY
(6) Construction Completion		20 NOV

\* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.

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

EQUIPMENT NOMENCLATURE	PROCURRING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
Furnishings	3400	2020	2

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
3. INSTALLATION, SITE AND LOCATION KECSKEMÉT AIR BASE, HUNGARY		4. PROJECT TITLE ERI: CONSTRUCT PARALLEL TAXIWAY		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 112-211	7. PROJECT NUMBER LHKE180002	8. PROJECT COST (\$000) 30,000	
<b>9. COST ESTIMATE</b>				
<b>ITEM</b>	<b>U/M</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>COST (\$000)</b>
<b>PRIMARY FACILITIES</b>				<b>25,097</b>
Parallel Taxiway w/ Paved Shoulders (112-211)	SM	114,948	181.94	20,914
Ladder Taxiways w/ Paved Shoulders (112-211)	SM	27,893	150.01	4,184
<b>SUPPORTING FACILITIES</b>				<b>430</b>
Utilities	LS	1	--	160
Pavements	SM	2,049	74.55	153
Site Improvements	LS	1	--	85
Demolition	LS	1	--	32
<b>SUBTOTAL</b>				<b>25,527</b>
Contingency (5%)				1,276
<b>TOTAL CONTRACT COST</b>				<b>26,803</b>
Supervision, Inspection and Overhead (6.5%)				1,742
Design/Build - Design Cost (4%)				1,021
<b>TOTAL REQUEST</b>				<b>29,567</b>
<b>TOTAL REQUEST (ROUNDED)</b>				<b>30,000</b>
<b>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</b>				<b>0</b>
<b>10. DESCRIPTION OF PROPOSED CONSTRUCTION:</b>				
<p>Construct a parallel taxiway using conventional design and construction methods to accommodate North Atlantic Treaty Organization (NATO)-equivalent Tactical Fighter Aircraft (TFA) and Strategic Transport Aircraft (STA). Design aircraft include the F-15 Eagle, A-10 Warthog, and C-5 Galaxy. Airfield upgrades are in support of the European Reassurance Initiative (ERI). Construction includes taxiway pavement using medium-load design, 650-pounds-per-square-inch (psi) portland cement concrete, asphalt shoulders, a separation layer, a drainage layer, a drainage system, edge lighting, pavement markings, and earthwork and grading. The lighting vault will be improved with upsized regulators. Design and construction efforts will be executed in accordance with host-nation agreements for the ERI and Standard NATO Agreements (STANAGs) to include construction and environmental permits. Facilities will be designed as permanent construction and will be in accordance with United States Air Forces in Europe Instruction (USAFEI), International Civil Aviation Organization (ICAO) Annex 14, and host nation airfield/airspace siting requirements. In addition, local materials and construction techniques shall be used where cost-effective. This project will comply with DoD antiterrorism requirements per UFC 4-010-01.</p>				

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
3. INSTALLATION, SITE AND LOCATION KECSKEMÉT AIR BASE, HUNGARY		4. PROJECT TITLE ERI: CONSTRUCT PARALLEL TAXIWAY		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 112-211	7. PROJECT NUMBER LHKE180002	8. PROJECT COST (\$000) 30,000	

**11. REQUIREMENT:** 137,221 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM

**PROJECT:**

Construct Parallel Taxiway (ERI). (New Mission)

**REQUIREMENT:**

This project is required to meet USAF requirements in support of USEUCOM's Operation Atlantic Resolve, which includes military exercises and training on land, in the air, and at sea while sustaining a rotational presence throughout Europe. A key enabler for training and combat operations is substantial infrastructure at key locations to support military activities.

To support this operation at Kecskemét Air Base (AB), Hungary, a parallel taxiway, associated runway ladder taxiways, and taxiway lighting are required to permit safe and expeditious movement of NATO-equivalent TFA and STA aircraft. Facilities will improve runway capacity and access efficiency while heightening airfield presence and improving airfield readiness, as well as improving safe operations in support of Operation Atlantic Resolve, bolstering the security of NATO allies and partners in Europe. Hungary is a NATO member state and, as such, has a requirement to host deployed U.S. forces. This facility will be capable of supporting bilateral and multilateral exercises and training with allies and partners.

**CURRENT SITUATION:**

Existing taxiway facilities at Kecskemét AB are not adequately configured or designed to meet anticipated sortie generation. Pavement geometrics are inadequate to support the overall dimensions and weight of STA, limiting airfield capability in support of the ERI. Existing taxiway alterations are impeded by existing structures (i.e., air traffic control tower, aircraft maintenance hangars, aircraft arm/disarm pad, and aircraft parking aprons/shelters) and cannot be modified to meet Air Force, DoD, and NATO criteria.

**IMPACT IF NOT PROVIDED:**

If this project is not provided, build out of the airfield with a connection to a related project requesting a TFA Parking Apron and Dangerous Cargo Pad with Open Storage for cargo staging and marshalling capable of supporting weapon systems such as the F-15 Eagle, A-10 Warthog, and C-5 Galaxy will not be available to the DoD or its allies and partners during contingency operations. Therefore, responsiveness for bilateral and multilateral exercises and training missions would be compromised. This limitation will impede sortie generation, and restrict flying schedules, directly limiting theater presence and impairing mission capability and readiness and contingency support to Operation Atlantic Resolve within Europe, Africa, and the Middle East.

**ADDITIONAL:**

This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements, Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project and will follow the guidance detailed in the Air Force (AF) Sustainable Design and Development Implementing Guidance Memorandum (dated June 2, 2011) in accordance with applicable laws and Executive Orders. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSMMeans were used to develop the estimate for this project. An Economic Analysis (EA) was not performed because there is only one method possible to accomplish the objective (IAW AFI 65-501, 1.2.2.2). An EA Waiver has been prepared.

**JOINT USE CERTIFICATION:** These facilities can be used by other components on an 'as available' basis; however, the scope of the project is based on Air Force requirements. Elements of this program are not currently eligible for NATO Security Investment Program (NSIP) funding. This project will be submitted for NATO pre-financing.

**FOREIGN CURRENCY:** FCF Budget Rate Used: EUROS 0.9329

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION KECSKEMÉT AIR BASE, HUNGARY		4. PROJECT TITLE ERI: CONSTRUCT PARALLEL TAXIWAY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 112-211	7. PROJECT NUMBER LHKE180002	8. PROJECT COST (\$000) 30,000

**12. SUPPLEMENTAL DATA:**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	17 JUN
(b) Parametric Cost Estimates used to develop costs	YES
(c) Percent Complete as of 01 Feb 2018	XX%
(d) Date 35% Designed*	18 MAR
(e) Date Design Complete	18 OCT
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	(1,000)
(a) Production of Plans and Specifications	0
(b) All Other Design Costs	0
(c) Total	0
(d) Contract	0
(e) In-house	0
(4) Construction Contract Award	19 APR
(5) Construction Start	19 MAY
(6) Construction Completion	20 NOV

\* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.

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

EQUIPMENT NOMENCLATURE	PROCURRING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
N/A	N/A	N/A	N/A

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION KECSKEMÉT AIR BASE, HUNGARY		4. PROJECT TITLE ERI: CONSTRUCT PARALLEL TAXIWAY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 112-211	7. PROJECT NUMBER LHKE180002	8. PROJECT COST (\$000) 30,000

**EXISTING FACILITIES/DEFICIENCY DETAIL DATA SHEET**

a. Requirements and Assets

- (1) Scope of this Request: SM/SF
- (2) Mission: European Reassurance Initiative
- (3) Requirement:
- (4) Functional Breakout of Proposed Scope:

<u>Function</u>	<u>SM</u>	<u>SF</u>
	137,221	14,770,035

(5) Requirements/Assets:

	<u>SM</u>	<u>SF</u>
a. Total requirements	137,221	14,770,035
b. Existing Substandard	0	0
c. Existing Adequate	0	0
d. Funded, Not in Inventory	0	0
e. Adequate (c + d)	0	0
f. Included in FY15 Program	0	0
g. Deficiency (a – e – f)	137,221	14,770,035

Notes: N/A

<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>			<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> KECSKEMÉT AIR BASE, HUNGARY		<b>4. PROJECT TITLE</b> ERI: AIRFIELD UPGRADES		
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 113-321	<b>7. PROJECT NUMBER</b> LHKE180003	<b>8. PROJECT COST (\$000)</b> 12,900	

**9. COST ESTIMATE**

ITEM	U/M	QUANTITY	UNIT	COST (\$000)
<b>PRIMARY FACILITIES</b>				<b>10,750</b>
TFA Parking Apron/Entrance Taxi, Shoulders (113-321)	SM	35,381	165.57	5,858
Dangerous Cargo Pad, Entrance Taxi, Shoulders (116-662)	SM	22,133	167.94	3,717
Cargo Vehicular Delivery Roadway (851-147)	SM	20,483	28.98	594
Cargo Marshalling Area (452-252)	SM	920	66.16	61
Exterior Area (Mast) Lighting (812-926)	EA	25	20,830.16	521
<b>SUPPORTING FACILITIES</b>				<b>341</b>
Utilities	LS	1	--	117
Pavements	--	--	--	--
Site Improvements	LS	1	--	224
<b>SUBTOTAL</b>				<b>11,091</b>
Contingency (5%)				555
<b>TOTAL CONTRACT COST</b>				<b>11,646</b>
Supervision, Inspection and Overhead (6.5%)				757
Design/Build - Design Cost (4%)				444
<b>TOTAL REQUEST</b>				<b>12,847</b>
<b>TOTAL REQUEST (ROUNDED)</b>				<b>12,900</b>
<b>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</b>				<b>68</b>

**10. DESCRIPTION OF PROPOSED CONSTRUCTION:**

Construct airfield upgrades using conventional design and construction methods to accommodate North Atlantic Treaty Organization (NATO)-equivalent Tactical Fighter Aircraft (TFA) and Strategic Transport Aircraft (STA). Design aircraft include the F-15 Eagle, A-10 Warthog, and C-5 Galaxy. Airfield upgrades are in support of European Reassurance Initiative (ERI). Primary facilities include a TFA parking apron, dangerous cargo pad, cargo road, open storage for marshalling cargo, and mast lighting. Construction includes apron pavement using medium-load design, 650-pounds-per-square-inch (psi) portland cement concrete, asphalt shoulders, a separation layer, a drainage layer, a drainage system, edge lighting, pavement markings, and earthwork and grading. Design and construction efforts will be executed in accordance with host-nation agreements for the ERI and Standard NATO Agreements (STANAGs) to include construction and environmental permits. Facilities will be designed as permanent construction in accordance with Bi-Strategic Commands (Bi-SC) Directive 85-5, NATO Approved Criteria and Standards for Airfields, and DoD Unified Facilities Criteria (UFC) 3-260-01, Airfield and Heliport Planning and Design. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism (AT) requirements per UFC 4-010-01.

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION KECSKEMÉT AIR BASE, HUNGARY		4. PROJECT TITLE ERI: AIRFIELD UPGRADES	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 113-321	7. PROJECT NUMBER LHKE180003	8. PROJECT COST (\$000) 12,900

11. REQUIREMENT: 57,514 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM

**PROJECT:**

Construct Airfield Upgrades (ERI). (New Mission)

**REQUIREMENT:**

This project provides the airfield upgrades required by USAF in support of Operation Atlantic Resolve and supports USEUCOM European Reassurance Initiative objectives. Operation Atlantic Resolve includes bilateral and multilateral military exercises and training on land, in the air, and at sea while sustaining a rotational presence throughout Europe. A key enabler for training and combat operations is substantial infrastructure at key locations to support military activities.

To support this operation, USAF requires airfield upgrades at Kecskemét Air Base (AB) to support one NATO-equivalent TFA squadron for a total of 12 aircraft with provisions, such as adequate entrance taxi and apron shoulders, and to support STA parking when required. Wingtip separation distance is planned at 3.1 meters (10 feet) for TFA. In order to provide flexibility for the various types of TFA that may park on the apron, the length of an F-15 Eagle and the wingspan of an A-10 Warthog (the longest and widest TFA in the U.S. inventory, respectively) have been utilized during planning and programming efforts. Additionally, a dangerous cargo pad with open storage for cargo marshalling and staging is required to support STA. Parking aprons and pads will include exterior area lighting. The design aircraft for this pad is the C-5 Galaxy. Aircraft will be able to enter, turn around, and exit under their own power. These facilities will increase maintenance and aircrew accessibility. Required facilities will improve sortie generation and efficiency while heightening airfield presence and improving airfield readiness and safe operations in support of Operation Atlantic Resolve, bolstering the security of our NATO allies and partners in Europe. Hungary is a NATO member state and, as such, has a requirement to host deployed U.S. forces. These facilities will be capable of supporting bilateral and multilateral exercises and training with allies and partners.

**CURRENT SITUATION:**

An adequate TFA parking apron capable of supporting the F-15 Eagle and A-10 Warthog weapon systems and a dangerous cargo apron to support the C-5 Galaxy are not available at Kecskemét AB. Existing aircraft parking is assigned to, and regularly used for host-nation TFA and NATO commitments. U.S. aircraft can use the existing two aprons subject to host-nation coordination and approval prior to use. These parking aprons are not illuminated. Pavement thickness for the active aprons is unknown. Additionally, a dangerous cargo pad with open storage for marshalling cargo is not available at Kecskemét AB. Use of the airfield for the movement of dangerous cargo requires the runway be shut down and violation of explosive safety quantity distance arcs, potentially placing personnel and property at risk, and severely degrading sortie generation capability.

**IMPACT IF NOT PROVIDED:**

If this project is not provided, an adequate TFA parking apron and dangerous cargo pad with open storage for cargo staging and marshalling capable of supporting weapon systems such as the F-15 Eagle, A-10 Warthog, and C-5 Galaxy will not be available to the DoD or its allies and partners during contingency operations. Therefore, responsiveness for bilateral and multilateral exercises and training missions would be compromised. This limitation will impede sortie generation and restrict flying schedules, directly limiting theater presence and impairing mission capability and readiness and contingency support to Operation Atlantic Resolve within Europe, Africa, and the Middle East.

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION KECSKEMÉT AIR BASE, HUNGARY		4. PROJECT TITLE ERI: AIRFIELD UPGRADES	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 113-321	7. PROJECT NUMBER LHKE180003	8. PROJECT COST (\$000) 12,900

**ADDITIONAL:**

This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements, Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project and will follow the guidance detailed in the AF Sustainable Design and Development Implementing Guidance Memorandum (dated June 2, 2011) in accordance with applicable laws and Executive Orders. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSMMeans were used to develop the estimate for this project. An Economic Analysis (EA) was not performed because there is only one method possible to accomplish the objective (IAW AFI 65-501, 1.2.2.2). An EA Waiver has been prepared.

JOINT USE CERTIFICATION: These facilities can be used by other components on an 'as available' basis; however, the scope of the project is based on Air Force requirements. This project will be submitted for NATO pre-financing.

FOREIGN CURRENCY: FCF Budget Rate Used: EUROS 0.9329

<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> KECSKEMÉT AIR BASE, HUNGARY		<b>4. PROJECT TITLE</b> ERI: AIRFIELD UPGRADES	
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 113-321	<b>7. PROJECT NUMBER</b> LHKE180003	<b>8. PROJECT COST (\$000)</b> 12,900

**12. SUPPLEMENTAL DATA:**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	17 JUN
(b) Parametric Cost Estimates used to develop costs	YES
(c) Percent Complete as of 01 Feb 2018	0%
(d) Date 35% Designed*	18 MAR
(e) Date Design Complete	18 OCT
(f) Energy Study/Life-Cycle analysis was/will be performed	Yes
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	(1,000)
(a) Production of Plans and Specifications	0
(b) All Other Design Costs	0
(c) Total	0
(d) Contract	0
(e) In-house	0
(4) Construction Contract Award	19 APR
(5) Construction Start	19 MAY
(6) Construction Completion	20 NOV

\* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
Equipment Mobile, Wheeled Fire Extinguishers (10 each) NSN 4210-01-609-8709.	3400	2020	68

1. COMPONENT AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>	2. DATE
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3. INSTALLATION, SITE AND LOCATION Keflavik International Airport, Iceland	4. PROJECT TITLE ERI: Airfield Upgrades
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5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 112-211	7. PROJECT NUMBER BIKF180001	8. PROJECT COST (\$000) 14,400
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ITEM	U/M	QUANTITY	UNIT	COST (\$000)
<b>PRIMARY FACILITIES</b>				<b>12,442</b>
Taxiway (112-211)	M2	99,593	55.00	5,477
Apron (113-321)	M2	11,474	8.25	95
Pad, Dangerous Cargo, Load/Unload (116-662)	M2	97,483	27.44	2,675
Airfield Lighting (136-667)	M	8,992	466.59	4,195
<b>SUBTOTAL</b>				<b>12,442</b>
Contingency (5%)				622
<b>TOTAL CONTRACT COST</b>				<b>13,064</b>
Supervision, Inspection and Overhead (6.2%)				810
Design/Build - Design Cost (4%)				523
<b>TOTAL REQUEST</b>				<b>14,397</b>
<b>TOTAL REQUEST (ROUNDED)</b>				<b>14,400</b>
<b>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</b>				<b>0</b>

**10. DESCRIPTION OF PROPOSED CONSTRUCTION:** Project will repair and upgrade existing airfield pavement and lighting. Pavement work includes repairs and improvements to aircraft taxiways, parking aprons and a dangerous cargo pad. Repairs to taxiways and associated shoulders include crack sealing, resurfacing or seal coating of asphalt sections and isolated crack repair and joint re-sealing of concrete sections. As required by applicable criteria, taxiways and shoulders will be widened to accommodate large support aircraft. Repairs to aircraft parking apron include isolated concrete crack repair and joint re-sealing and the installation of mooring eyes. Repairs to the dangerous cargo pad and associated shoulders include isolated crack repair, limited slab replacement and joint re-sealing of concrete pad and crack sealing and seal coating of asphalt shoulders. Mooring and grounding points will be replaced, and limited storm water improvements installed as required to meet local environmental regulations. Pavement markings will be replaced in all areas to be repaired and upgraded.

Airfield lighting work includes complete replacement of taxiway and apron edge lighting and visual navigation systems in all areas to be repaired and upgraded. System will include all conduits, high-voltage wiring, LED fixtures and all associated infrastructure to integrate with the Keflavik International Airport system.

Project will adhere to Icelandic Coast Guard, NATO and Keflavik International Airport regulations. Airfield facilities will be designed and constructed as permanent construction in accordance with UFC (3-260-01), Airfield and Heliport Planning and Design, UFC (3-260-02) Pavement Design for Airfields and ICAO criteria (ICAO Annex 14 – Aerodromes). Where applicable, facilities will be constructed in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013.

**11. REQUIREMENT:** 208,549 SM ADEQUATE: 0 SM SUBSTANDARD: 193,549 SM

PROJECT: ERI: Airfield Repairs and Upgrades

REQUIREMENT: This project provides the safe and adequate airfield infrastructure required by USAF in support of Operation Atlantic Resolve and supports USEUCOM European Reassurance Initiative objectives. Operation Atlantic Resolve includes bilateral and multilateral military exercises and training on land, in the air, and at sea while sustaining a rotational presence in Europe. The defense-controlled airfield facilities at Keflavik International Airport are required to support both visiting and deployed US Forces. Safe and adequate infrastructure is needed to meet a 24-hour operational requirement of up to two fighter and two support aircraft squadrons, while maximizing flexibility for varied missions and

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION Keflavik International Airport, Iceland		4. PROJECT TITLE ERI: Airfield Upgrades	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 112-211	7. PROJECT NUMBER BIKF180001	8. PROJECT COST (\$000) 14,400

aircraft. This project will directly improve airfield presence, bolster airfield capability and readiness and secure continued and expanded airfield use into the future to support bilateral and multilateral exercises and training with allies and partners.

CURRENT SITUATION: Naval Air Station Keflavik was the host command for all U.S. defense activities in Iceland from 1951 until 2006 when it transitioned to international airport use, military/defense and security use (defense controlled area), and civilian use. Since the 2006 transition, aircraft taxiways, parking aprons, and a dangerous cargo pad within the Icelandic Coast Guard defense controlled area have been used to a limited extent by visiting and deployed US forces as well as NATO member state forces. Due to a lack of resources, the pavement has not been repaired during this time and is largely in a state of deferred maintenance. The last pavement evaluation performed at this location, in 2001, notes condition issues that have never been addressed.

The airfield lighting within the defense-controlled area is partially operational, preventing certain areas from 24-hour use. There are many broken light fixtures, and given the condition of other parts of the system unearthed as part of the commercial airport upgrades, it is assumed that the conduit has suffered water penetration and wire has been damaged. Repairs have not been made, partially due to a lack of funding, but also because the airport, inclusive of the commercial and the defense-controlled area, is undergoing mandated electrical upgrades to comply with European power standards. This work involves replacing lighting circuits that were previously constructed by the DoD, using 60hz power which is being replaced with 50hz power per the European norms. These upgrades require a complete replacement due to the change of voltage, thus piecemeal repairs are not practical. The airfield lighting is one, integrated system with all operational control managed by the commercial airport. While the commercial airport has plans to complete the upgrades within the commercial areas in the next ten years, there are no programmed projects or funds designated to upgrade the airfield lighting in the Defense Controlled Area.

IMPACT IF NOT PROVIDED: If not repaired, the pavement will continue to degrade, impeding safe sortie generation of deployed USAF forces from this airfield. Cracking, joint deterioration and general aging will eventually render the taxiways in the defense controlled areas unsafe or unusable. Use and flexibility of dangerous cargo pad and aprons will be limited by lack of proper grounding, mooring and taxiway width. Ability to re-fuel on pad is currently limited, and may not be allowed if environmental storm water regulations are not met and the existing waiver expires. Lack of clear pavement markings and failing visual navigation systems will impact the safety of taxiways. The lack of a fully operational lighting and visual navigation system will continue to prevent 24-hour operations in most areas, a significant limitation in winter and during inclement weather. Since piecemeal repairs are impractical due the mandated system upgrade, additional failures are likely. Once the commercial airport completes their upgrades, it will be difficult, if not impossible to maintain dual voltage/frequency long-term. An electrical and lighting upgrade that integrates with the commercial airport is crucial infrastructure to ensure future operational capability.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements, Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project and will follow the guidance detailed in the AF Sustainable Design and Development Implementing Guidance Memorandum (dated June 2, 2011) in accordance with applicable laws and Executive Orders. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSMMeans were used to develop the estimate for this project. An Economic Analysis (EA) was not performed because there is only one method possible to accomplish the objective (IAW AFI 65-501, 1.2.2.2). An EA Waiver has been prepared. POC is USAFE/A4C, commercial phone number is +49 (0) 6371-47-6773.

JOINT USE CERTIFICATION: These facilities can be used by other components on an 'as available' basis; however, the scope of the project is based on Air Force requirements. Elements of this program are not currently eligible for NATO Security Investment Program (NSIP) funding. This project will be submitted for NATO pre-financing.

FOREIGN CURRENCY: FCF Budget Rate Used: EUROS .9329

**12. SUPPLEMENTAL DATA:**

<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> Keflavik International Airport, Iceland		<b>4. PROJECT TITLE</b> ERI: Airfield Upgrades	
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 112-211	<b>7. PROJECT NUMBER</b> BIKF180001	<b>8. PROJECT COST (\$000)</b> 14,400

a. Estimated Design Data:

- (1) Status:
  - (a) Date Design Started 16 Oct
  - (b) Parametric Cost Estimates used to develop costs YES
  - (c) Percent Complete as of 01 JAN 2017\* 10%
  - (d) Date 35% Designed\* 17 June
  - (e) Date Design Complete 18 May
  - (f) Energy Study/Life-Cycle analysis was/will be performed YES
  
- (2) Basis:
  - (a) Standard or Definitive Design - NO
  - (b) Where Design was Most Recently Used - Location
  
- (3) Total Cost (c) = (a) + (b) or (d) + (e): (\$361,000)
  - (a) Production of Plans and Specifications 0
  - (b) All Other Design Costs 0
  - (c) Total \$360,916
  - (d) Contract \$65,621
  - (e) In-house \$295,295
  
- (4) Construction Contract Award 17 Dec
- (5) Construction Start 18 June
- (6) Construction Completion 19 Oct

\* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.

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

1. COMPONENT AF:USAFE/AFAFRICA		FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
3. INSTALLATION, SITE AND LOCATION LIELVĀRDE AIR BASE, LIELVĀRDE, LATVIA			4. PROJECT TITLE ERI: EXPAND STRATEGIC RAMP PARKING		
5. PROGRAM ELEMENT 27596		6. CATEGORY CODE 113-321		7. PROJECT NUMBER EVGA180001	
				8. PROJECT COST (\$000) 3,850	
<b>9. COST ESTIMATE</b>					
<b>ITEM</b>		<b>U/M</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>COST (\$000)</b>
<b>PRIMARY FACILITIES</b>					<b>2,116</b>
Construct Concrete Strategic Apron (113-321)		M2	14,365	129.76	1,864
Construct Asphalt Shoulders (116-642)		LS	-	-	252
<b>SUPPORTING FACILITIES</b>					<b>1,207</b>
Utilities		LS	-	-	557
Site Improvements		LS	-	-	601
Demolition		LS	-	-	49
<b>SUBTOTAL</b>					<b>3,323</b>
Contingency (5%)					166
<b>TOTAL CONTRACT COST</b>					<b>3,489</b>
Supervision, Inspection and Overhead (6.5%)					227
Design/Build - Design Cost (4%)					140
<b>TOTAL REQUEST</b>					<b>3,855</b>
<b>TOTAL REQUEST (ROUNDED)</b>					<b>3,850</b>
<b>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</b>					-
<p><b>10. DESCRIPTION OF PROPOSED CONSTRUCTION:</b> Construct strategic transport aircraft concrete apron with tie downs and grounding for parked aircraft, and provide asphalt shoulder paving, jet blast deflectors, stormwater drainage, site grading, aviation power supply, electrical power distribution, airfield edge and flood lighting, an oil water separator, and demolition of existing pavement and storm drains. Project will be executed in accordance with UFC 1-202-01, Host Nation Facilities in Support of Military Operations. In addition, local materials and construction techniques will be used where cost-effective. Design and construction efforts will be executed in accordance with the Host Nation agreements for European Reassurance Initiative (ERI) to include construction and environmental permits.</p>					
<p><b>11. REQUIREMENT:</b> 14,365 SM                      ADEQUATE: 0 SM                      SUBSTANDARD: 0 SM</p> <p><u>PROJECT:</u> Expand Strategic Airlift Apron (ERI)</p> <p><u>REQUIREMENT:</u> This project provides the apron space that is required by USAF for C-17 operations in support of Operation Atlantic Resolve and supports USEUCOM European Reassurance Initiative objectives. Operation Atlantic Resolve includes bilateral and multilateral military exercises and training on land, in the air, and at sea while sustaining a rotational presence in Europe. A mission requirement for training and combat operations is substantial infrastructure at key locations to support C-17 aircraft. To support this operation, Lielvārde Air Base (AB) requires a concrete strategic apron to increase airfield capability, readiness, and safe operations in support of the Operation Atlantic Resolve. The apron will meet applicable criteria specified in Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields; Unified Facilities Criteria (UFC) 3- 260-01, Airfield and Heliport Planning and Design; UFC 1-202-01, Host Nation Facilities in Support of Military Operations; and Air Force Manual 32-1084 Facility Requirements.</p> <p><u>CURRENT SITUATION:</u> Existing apron space at Lielvārde AB is substandard in size to support Strategic Transport Aircraft, such as C-17s, and their support facilities, which are necessary components of Operation Atlantic Resolve. Existing apron space cannot accommodate the parking of two (2) transiting C-17 aircraft, nor accommodate one (1) transiting C-17 aircraft to taxi under its own power. Lielvārde AB cannot currently support the air mobility requirements for the assigned mission until an adequately sized apron is constructed.</p>					

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION LIELVĀRDE AIR BASE, LIELVĀRDE, LATVIA		4. PROJECT TITLE ERI: EXPAND STRATEGIC RAMP PARKING	
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 113-321	7. PROJECT NUMBER EVGA180001	8. PROJECT COST (\$000) 3,850

**IMPACT IF NOT PROVIDED:** If the expansion of the Strategic Airlift Apron is not provided, U.S. Air Forces in Europe (USAFE) and NATO air mobility assets will be unable to respond to threats or be able to support NATO Baltic Air Policing efforts. The base has substandard apron space to park transiting USAFE aircraft, which directly limits airfield presence, preventing NATO from satisfying the air mobility mission. Therefore, responsiveness for bilateral and multilateral exercises and training missions will be compromised.

**ADDITIONAL:** This project meets applicable criteria specified in Air Force Manual 32-1084, Facility Requirements, as well as Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with applicable laws and Executive Orders. User Generated costs were used to develop the estimate for this project, utilizing data from previous projects constructed on the Base, adjusted to current costs, and then escalated to the projected mid-point of construction, November 2018. An Economic Analysis (EA) was not performed because there is only one method possible to accomplish the objective (IAW AFI 65-501, 1.2.2.2). An EA waiver has been prepared. POC: +44 1638 545 265.

**JOINT USE CERTIFICATION:** These facilities can be used by other components on an 'as available' basis; however, the scope of the project is based on Air Force requirements. These facilities are intended to be used by U.S. and NATO partners when visiting or deployed to Lielvārde Air Base, Latvia. This project will be submitted for NATO pre-financing. Although not eligible for infrastructure common funding, a precautionary pre-finance statement will be filed for this project to allow possible future recoupment if eligibility is established.

FOREIGN CURRENCY: FCF Budget Rate Used: EUR 0.9329

<b>1. COMPONENT</b> AF:USAFE/AFAFRICA		<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> LIELVĀRDE AIR BASE, LIELVĀRDE, LATVIA			<b>4. PROJECT TITLE</b> ERI: EXPAND STRATEGIC RAMP PARKING	
<b>5. PROGRAM ELEMENT</b> 27596	<b>6. CATEGORY CODE</b> 113-321	<b>7. PROJECT NUMBER</b> EVGA180001	<b>8. PROJECT COST (\$000)</b> 3,850	

<b>12. SUPPLEMENTAL DATA:</b>			
a. Estimated Design Data:			
a. Estimated Design Data:			
(1) Status			
(a) Design Start			17 MAR
(b) 35% Designed			17 MAY
(c) Design Complete			17 SEP
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used			N/A
(3) Total Design Cost			(140)
(4) Construction Contract Award			17 OCT
(5) Construction Start			18 MAY
(6) Construction Completion			19 MAY
b. Equipment associated with this project provided from other appropriations:			
<b>EQUIPMENT NOMENCLATURE</b>	<b>PROCURRING APPROPRIATION</b>	<b>FISCAL YEAR APPROPRIATED OF REQUESTED</b>	<b>COST (\$000)</b>
NONE REQUIRED	N/A	N/A	N/A

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION CENTRAL REGIONAL STORAGE FACILITY  SANEM, LUXEMBOURG		4. PROJECT TITLE ERI: ECAOS DEPLOYABLE AIRBASE SYSTEM STORAGE			
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  442-421	7. RPSUID/PROJECT NUMBER  /LUXE180001	8. PROJECT COST (\$000)  67,400		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					44,571
CONTROLLED HUMIDITY WAREHOUSE (442-421)		SM	16,590	1,914	( 31,749 )
WAREHOUSE SUPPLY & EQUIP BASE (442-758)		SM	7,295	1,488	( 10,854 )
SHOP, REFUELING VEHICLE (214-467)		SM	510	3,557	( 1,814 )
BUILDING INFORMATION SYSTEMS		LS			( 154 )
SUPPORTING FACILITIES					13,652
UTILITIES		LS			( 3,138 )
PAVEMENTS		LS			( 1,538 )
SITE IMPROVEMENTS		LS			( 7,535 )
ENVIRONMENTAL MITIGATION		LS			( 1,044 )
INFORMATION SYSTEMS		LS			( 397 )
SUBTOTAL					58,223
CONTINGENCY (5.0%)					2,911
TOTAL CONTRACT COST					61,134
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					3,974
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					2,329
TOTAL REQUEST					67,437
TOTAL REQUEST (ROUNDED)					67,400
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					( 178 )
<p>10. Description of Proposed Construction: Construct humidity-controlled warehouses using conventional design and construction methods to accommodate airfield infrastructure European Airfield Operations Set (ECAOS) Deployable Airbase Systems (DABS) at Central Regional Storage Facility (CRSF), Sanem, Luxembourg in support of the European Reassurance Initiative (ERI).</p> <p>Construction includes humidity controlled warehouses, general purpose warehouses, and a refueling vehicle maintenance shop. In addition, the facilities will include a fire alarm system, heat and smoke detection systems, door-open monitoring system, electrical load shedding system, lightning protection, and overvoltage protection for power and telecommunications systems. Supporting facilities include utilities, pavements, site improvements, environmental mitigation, and information systems. Low-impact development integrated management practices are included. The facility is intended to be compatible with applicable DoD, Air Force, and host-nation design standards. In addition, local materials and construction techniques shall be used where required and/or appropriate. Design and construction efforts will be executed in accordance with the host-nation agreements, including construction and environmental permits.</p> <p>The facility will be designed as permanent construction in accordance with DoD</p>					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION CENTRAL REGIONAL STORAGE FACILITY SANEM, LUXEMBOURG			4. PROJECT TITLE ERI: ECAOS DEPLOYABLE AIRBASE SYSTEM STORAGE	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  442-421	7. RPSUID/PROJECT NUMBER  /LUXE180001	8. PROJECT COST (\$000)  67,400	
Unified Facilities Criteria (UFC) 1-202-01, Host Nation Facilities in Support of Military Operations; and UFC 3-600-01 Fire Protection Engineering for Facilities. This project will comply with DoD antiterrorism requirements per UFC 4-010-01.				
<p>11. Requirement: 21130 SM    Adequate: 0 SM    Substandard: 0 SM</p> <p><u>PROJECT:</u> Construct ECAOS DABS Storage</p> <p><u>REQUIREMENT:</u> This project is required to meet USAF requirements in support of USEUCOM's Operation Atlantic Resolve, which includes military exercises and training on land, in the air, and at sea while sustaining a rotational presence throughout Europe. A key enabler for increasing the responsiveness of U.S. forces to reinforce the North Atlantic Treaty Organization (NATO) is by prepositioning equipment and improving infrastructure in Europe.</p> <p>Luxembourg is a NATO member state that currently provides real estate and facilities at the CRSF in Sanem that are used to store large volumes of war reserve materiel (WRM). Because the existing warehouses at the CRSF are fully used based on existing authorizations, USAFE/AFAFRICA requires humidity-controlled warehouses, general purpose warehouses, and refueler maintenance bays for storage and maintenance of additional Deployable Air Base System (DABS) assets. These assets support tactical missions and contingency support operations within Europe, Africa, and the Middle East. This project will improve USAFE/AFAFRICA's mission readiness by ensuring that the equipment and vehicles comprising the DABS are protected from the elements and maintained in a condition of constant readiness.</p> <p><u>CURRENT SITUATION:</u> The CRSF at Sanem, Luxembourg is used to store WRM for the U.S Air Force on behalf of NATO. The existing warehouses are used to keep deployable equipment and vehicles in a state of readiness until needed for contingency support operations. The existing warehouses at CRSF are 100 percent utilized based on existing authorizations. USAFE/AFAFRICA must store additional DABS in the European theater in support of USEUCOM European Reassurance Initiative objectives. There are no vacant warehouses at the CRSF that can be used to accommodate the increased volume of materiel and number of vehicles that are required to be stored.</p> <p><u>IMPACT IF NOT PROVIDED:</u> If this project is not provided, there will be no covered and humidity-controlled space at the CRSF in which USAFE/AFAFRICA can store additional Deployable Air Base Systems. The lack of properly sized and configured humidity-controlled and covered warehouse space will force USAFE/AFAFRICA to make use of available open storage areas and expedient shelters that will not fully protect these valuable assets from climatic conditions. Exposure to excessive moisture will degrade and potentially damage the DABS equipment and vehicles. Deployment and use of the DABS will potentially be delayed while urgent repairs are made to restore the equipment and vehicles to their required operability standards.</p> <p><u>ADDITIONAL:</u> This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements, and the applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION CENTRAL REGIONAL STORAGE FACILITY  SANEM, LUXEMBOURG			4. PROJECT TITLE ERI: ECAOS DEPLOYABLE AIRBASE SYSTEM STORAGE	
5. PROGRAM ELEMENT  27576	6. CATEGORY CODE  442-421	7. RPSUID/PROJECT NUMBER  /LUXE180001	8. PROJECT COST (\$000)  67,400	
<p>used when cost effective. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project and will follow the guidance detailed in the AF Sustainable Design and Development Implementing Guidance Memorandum (dated June 2, 2011) in accordance with applicable laws and Executive Orders. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSMeans were used to develop the estimate for this project. An Economic Analysis (EA) was not performed because there is only one method possible to accomplish the objective (IAW AFI 65-501, 1.2.2.2). An EA Waiver has been prepared. The area cost factor is 1.70 for Sanem, Luxembourg.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .9329</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements. This project will be submitted for NATO pre-financing.</p>				

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE								
3. INSTALLATION AND LOCATION CENTRAL REGIONAL STORAGE FACILITY SANEM, LUXEMBOURG		4. PROJECT TITLE ERI: ECAOS DEPLOYABLE AIRBASE SYSTEM STORAGE									
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 442-421	7. PROJECT NUMBER /LUXE180001	8. PROJECT COST (\$000) 67,400								
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) All Other Design Costs 0</p> <p>(4) Construction Contract Award 18 JUL</p> <p>(5) Construction Start 18 SEP</p> <p>(6) Construction Completion 20 APR</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed NO</p> <p>b. Equipment associated with this project provided from other appropriations:</p> <table border="0"> <thead> <tr> <th>EQUIPMENT NOMENCLATURE</th> <th>PROCURING APPRC</th> <th>FISCAL YEAR APPROPRIATED OR REQUESTED</th> <th>COST (\$000)</th> </tr> </thead> <tbody> <tr> <td>FURNISHINGS</td> <td>3400</td> <td>2020</td> <td>178</td> </tr> </tbody> </table>				EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)	FURNISHINGS	3400	2020	178
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)								
FURNISHINGS	3400	2020	178								



<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> Rygge Air Station, Norway		<b>4. PROJECT TITLE</b> ERI: Replace/Expand Quick Reaction Alert Pad	
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 113-321	<b>7. PROJECT NUMBER</b> ENRY180001	<b>8. PROJECT COST (\$000)</b> 10,300

**CURRENT SITUATION:** An adequate QRA Pad capable of supporting various U.S. and NATO fighter aircraft is not currently available at Rygge Air Station, Norway.

**IMPACT IF NOT PROVIDED:** If this project is not provided, an adequate QRA Pad, with Aircraft Shelters providing necessary protection from inclement weather, capable of supporting various U.S. and NATO fighter aircraft will not be available to the DoD or its allies and partners during contingency operations. This limitation will impede sortie generation and flying schedules, directly limiting airfield presence and impairing airfield capability and readiness to support Operation Atlantic Resolve. Therefore, responsiveness for bilateral and multilateral exercises and training missions would be compromised. This limitation will impede sortie generation and restrict flying schedules, directly limiting theater presence and impairing mission capability and readiness and contingency support to ongoing and future operations.

**ADDITIONAL:** This project has been coordinated with the host nation, and meets host nation and Air Force requirements. The initial cost estimate was based on local construction pricing data. This project meets applicable criteria/scope specified in AF Manual 32-1084, Facility Requirements, Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project and will follow the guidance detailed in the AF Sustainable Design and Development Implementing Guidance Memorandum (dated June 2, 2011) in accordance with applicable laws and Executive Orders. The UFC 4-701-01, DoD Pricing Guide, PACES, and RS Means were used to develop the estimate for this project. An Economic Analysis (EA) was not performed because there is only one method possible to accomplish the objective (IAW AFI 65-501, 1.2.2.2). An EA Waiver will be prepared. USAFE POC: USAFE-AFAFRICA/A4C, +49 (0)6371476226.

**JOINT USE CERTIFICATION:** These facilities can be used by other components on an 'as available' basis; however, the scope of the project is based on Air Force requirements. These facilities are intended to be used by U.S. and NATO partners when visiting or deployed to Rygge Air Station. This project will be submitted for NATO pre-financing. Although not eligible for infrastructure common funding, a precautionary pre-finance statement will be filed for this project to allow possible future recoupment if eligibility is established.

**FOREIGN CURRENCY:** FCF Budget Rate Used: Norwegian Krone 8.4115

<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> Rygge Air Station, Norway		<b>4. PROJECT TITLE</b> ERI: Replace/Expand Quick Reaction Alert Pad	
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 113-321	<b>7. PROJECT NUMBER</b> ENRY180001	<b>8. PROJECT COST (\$000)</b> 10,300

**12. SUPPLEMENTAL DATA:**

a. Estimated Design Data:

- (1) Project to be accomplished by design-build procedures
- (2) Basis:
  - (a) Standard or Definitive Design - NO
  - (b) Where Design was Most Recently Used -
- (3) All other design costs (\$000) \$575
- (4) DD Form 1391 Submittal 16 NOV
- (5) Design Instruction and Predesign Funding 16 DEC
- (6) DB RFP Architect-Engineer (AE) Solicitation 16 DEC – 17 FEB
- (7) DB RFP 17 MAR – 17 DEC
- (8) DB Solicitation 18 JAN – 18 APR
- (9) DB Award 18 MAY
- (10) DB Construction Start TBD
- (11) Energy Study/Life Cycle Analysis was/will be performed No

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

EQUIPMENT NOMENCLATURE	PROCURRING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
Telephones	3400	2020	1
Equipment	3400	2020	110



<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> CÂMPIA TURZII AIR BASE, ROMANIA		<b>4. PROJECT TITLE</b> ERI: UPGRADE UTILITIES INFRASTRUCTURE	
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 812-225	<b>7. PROJECT NUMBER</b> LRCT180001	<b>8. PROJECT COST (\$000)</b> \$ 2,950
<p><b>IMPACT IF NOT PROVIDED:</b> A key component for training and combat operations is substantial infrastructure to support military activities during contingency operations. If this project is not provided, Câmpia Turzii AB electrical infrastructure will be insufficient to support proposed aircraft operations and facilities. This limitation prevents USAFE and NATO from satisfying the air mobility mission by directly limiting airfield presence, and by impairing airfield capability and readiness to support Operation Atlantic Resolve. Therefore, responsiveness for bilateral and multilateral exercises and training missions will be compromised.</p> <p><b>ADDITIONAL:</b> This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements, Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields. User generated costs, derived from local labor rates and material pricing, were used to develop the estimate for this project. An Economic Analysis (EA) was not performed because there is only one method possible to accomplish the objective (IAW AFI 65-501, 1.2.2.2). An EA waiver has been prepared. Force protection measures are considered IAW USAF Installation Protection Guide. POC: +49-6371-473623</p> <p><b>JOINT USE CERTIFICATION:</b> This upgrade to the electrical infrastructure system can be used by other components on an "as available" basis, however, the scope of the project is based on USAF requirements. This project will be submitted for NATO pre-financing. Although not eligible for infrastructure common funding, a precautionary pre-finance statement will be filed for this project to allow possible future recoupment if eligibility is established.</p> <p><b>FOREIGN CURRENCY:</b> FCF Budget Rate Used: EUR 0.9329</p>			

<b>1. COMPONENT</b> AF:USAFE/AFAFRICA		<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> CÂMPIA TURZII AIR BASE, ROMANIA			<b>4. PROJECT TITLE</b> ERI: UPGRADE UTILITIES INFRASTRUCTURE	
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 812-225	<b>7. PROJECT NUMBER</b> LRCT180001	<b>8. PROJECT COST (\$000)</b> \$ 2,950	

<b>12. SUPPLEMENTAL DATA:</b>				
a. Estimated Design Data:				
(1) Status				
(a) Design Start			17 SEP	
(b) 35% Designed			17 NOV	
(c) Design Complete			18 JAN	
(2) Basis:				
(a) Standard or Definitive Design -			NO	
(b) Where Design Was Most Recently Used			N/A	
(3) Total Design Cost			(107)	
(4) Construction Contract Award			18 JAN	
(5) Construction Start			18 MAY	
(6) Construction Completion			19 MAR	
b. Equipment associated with this project provided from other appropriations:				
<b>EQUIPMENT NOMENCLATURE</b>	<b>PROCURRING APPROPRIATION</b>	<b>FISCAL YEAR APPROPRIATED OF REQUESTED</b>	<b>COST (\$000)</b>	
NONE REQUIRED	N/A	N/A	N/A	

<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>			<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> SLIAČ AIRPORT, SLOVAKIA		<b>4. PROJECT TITLE</b> ERI: AIRFIELD UPGRADES		
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 113-321	<b>7. PROJECT NUMBER</b> LZSL180001	<b>8. PROJECT COST (\$000)</b> 22,000	

**9. COST ESTIMATE**

<b>ITEM</b>	<b>U/M</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>COST (\$000)</b>
<b>PRIMARY FACILITIES</b>				<b>13,944</b>
TFA Parking Apron, Shoulders (113-321)	SM	37,297	220.84	8,237
Runway Hammerhead Turnaround (111-111)	SM	1,150	325.84	375
Arm/Disarm Pad, Shoulders (116-661)	SM	15,934	217.17	3,460
Jet Engine Power Test Pad, Shoulders (116-664)	SM	1,311	441.01	578
Roads (851-147)	SM	23,856	51.17	1,221
Aircraft Arresting Systems, Drainage (116-922)	M	56	1,297.34	73
<b>SUPPORTING FACILITIES</b>				<b>5,402</b>
Utilities	LS	1		575
Pavements	LS	1		1,397
Site Improvements	LS	1		3,358
Demolition	SM	262	277.15	73
<b>SUBTOTAL</b>				<b>19,346</b>
Contingency (5%)				967
<b>TOTAL CONTRACT COST</b>				<b>20,314</b>
Supervision, Inspection and Overhead (6.5%)				1,320
Design/Build - Design Cost (4% of Subtotal)				774
<b>TOTAL REQUEST</b>				<b>22,408</b>
<b>TOTAL REQUEST (ROUNDED)</b>				<b>22,000</b>
<b>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</b>				<b>0</b>

**10. DESCRIPTION OF PROPOSED CONSTRUCTION:**

Construct airfield upgrades using conventional design and construction methods to accommodate North Atlantic Treaty Organization (NATO)-equivalent Tactical Fighter Aircraft (TFA) and Strategic Transport Aircraft (STA). Design aircraft include the F-15 Eagle, A-10 Warthog, C-5 Galaxy, and C-17 Globemaster. Airfield upgrades are in support of the European Reassurance Initiative (ERI) AF.5 – Improve Airfield Infrastructure. Required facilities include a TFA parking apron, jet engine power check pad, arm/disarm pad, infrastructure to resolve airfield flooding, roadways, and a runway hammerhead for STA. Construction includes apron pavement using medium-load design, 650-pounds-per-square-inch (psi) Portland cement concrete, asphalt shoulders, a separation layer, a drainage layer, a drainage system, edge lighting, mast lighting, pavement markings, and earthwork and grading. Design and construction efforts will be executed in accordance with host-nation agreements for the ERI and Standard NATO Agreements to include construction and environmental permits. Facilities will be designed as permanent construction and will be in accordance with United States Air Forces in Europe (USAFE) Instruction 32-1007, International Civil Aviation Organization (ICAO) Annex 14, and host nation airfield/airspace siting requirements. In addition, local materials and construction techniques shall be used where cost-effective. This project will comply with Department of Defense (DoD) antiterrorism requirements per Unified Facilities Criteria (UFC) 4-010-01.

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION SLIAČ AIRPORT, SLOVAKIA		4. PROJECT TITLE ERI: AIRFIELD UPGRADES	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 113-321	7. PROJECT NUMBER LZSL180001	8. PROJECT COST (\$000) 22,000

11. REQUIREMENT: 55,692 SM ADEQUATE: 0SM SUBSTANDARD: 0 SM

**PROJECT:** Airfield Upgrades (ERI). (New Mission)

**REQUIREMENT:**

This project provides the apron space that is required by USAF for C-17 aircraft operations in support of Operation Atlantic Resolve and supports USEUCOM European Reassurance Initiative objectives. Operation Atlantic Resolve includes bilateral and multilateral military exercises and training on land, in the air, and at sea while sustaining a rotational presence throughout Europe. To support this operation USAF requires a TFA Parking Apron programmed to support two NATO-equivalent TFA squadrons for a total of 24 aircraft, Jet Engine Power Check Pad, Arm/Disarm Pad, Runway Hammerhead to accommodate STA, a paved vehicular munitions delivery road, and realignment of an existing roadway to obtain adequate clearances for the aforementioned TFA parking apron. Wingtip separation distance for a TFA parking apron and arm/disarm pad are planned at 3.1 meters (10 feet) for TFA. In order to provide flexibility for the various types of TFA that may park on the apron, the length of an F-15 Eagle and the wingspan of an A-10 Warthog (the longest and widest TFA in the U.S. inventory, respectively) have been utilized during planning and programming efforts. TFA parking apron, jet engine power check pad, arm/disarm pad, and runway hammerhead will require edge lighting. With the exception of the runway hammerhead, the same facilities require exterior area (mast) lighting. Aircraft should be able to enter, turn around, and exit the TFA parking apron, arm/disarm pad, and runway hammerhead under their own power.

Facilities will increase maintenance and aircrew accessibility. Required facilities will improve sortie generation and efficiency while heightening airfield presence as well as airfield readiness and safe operations in support of Operation Atlantic Resolve, bolstering the security of our NATO allies and partners in Europe. Slovakia is a NATO member state and, as such, has a requirement to host deployed U.S. forces. These facilities will be capable of supporting bilateral and multilateral exercises and training with allies and partners.

**CURRENT SITUATION:**

Adequate facilities necessary to support sortie generation of NATO-equivalent TFA are not available at Sliach AB. There are two aprons currently designated for TFA by the host nation: N1 and N2. Apron N1 has a Pavement Classification Number (PCN) of 19/R/B/X/U. This PCN value is lower than the Aircraft Classification Number (ACN) values of the design aircraft. Visual inspection of the apron confirmed that the apron is in poor structural condition, showing signs of spall and transverse cracks.

The jet engine power check pad is deteriorated and not adequately sized to accommodate the wingspan of U.S. aircraft. The associated jet blast wall is collapsing because of a poor drainage system, undermining, and the exhaust vector of aircraft.

The existing arm/disarm pad is capable of supporting a single aircraft at a time, three less than the requirement. Pavements are showing signs of transverse cracks and positive drainage to the airfield storm water management system has not been provided. This has caused pooling and distressed pavement conditions.

A runway hammerhead is not available at Sliach AB, limiting the use of the airfield for STA. The existing taxiways are inadequately sized to allow STA such as the C-5 Galaxy and C-17 Globemaster to pass. The runway hammerhead will allow the aircraft to turn around on the runway, offload, and depart. The BAK-12 AAS is inoperable due to severe flooding. Poor management of storm water runoff and snow melt has allowed water to enter the facility to a height of more than 0.3 meters (3 feet). A designated munitions delivery route is not available. Instead, munitions are transported over aircraft pavements, placing personnel and property at risk.

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION SLIAČ AIRPORT, SLOVAKIA		4. PROJECT TITLE ERI: AIRFIELD UPGRADES	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 113-321	7. PROJECT NUMBER LZSL180001	8. PROJECT COST (\$000) 22,000

**IMPACT IF NOT PROVIDED:**

If this project is not provided, an adequate TFA Parking Apron, Jet Engine Power Check Pad, Arm/Disarm Pad, and Runway Hammerhead will not be available to the DoD or its allies and partners. As a result of these inadequacies, responsiveness for bilateral and multilateral exercises and training missions would be compromised. This limitation will impede sortie generation and restrict flying schedules, directly limiting theater presence and impairing mission capability and readiness and contingency support to Operation Atlantic Resolve within Europe, Africa, and the Middle East.

**ADDITIONAL:**

This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements, Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project and will follow the guidance detailed in the AF Sustainable Design and Development Implementing Guidance Memorandum (dated June 2, 2011) in accordance with applicable laws and Executive Orders. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSMMeans were used to develop the estimate for this project. An Economic Analysis (EA) was not performed because there is only one method possible to accomplish the objective (IAW AFI 65-501, 1.2.2.2). An EA Waiver will be prepared.

**JOINT USE CERTIFICATION:**

These facilities can be used by other components on an 'as available' basis; however, the scope of the project is based on Air Force requirements. This project will be submitted for NATO pre-financing.

FOREIGN CURRENCY: FCF Budget Rate Used: EUROS 0.8990 (this is updated yearly)

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION SLIAČ AIRPORT, SLOVAKIA		4. PROJECT TITLE ERI: AIRFIELD UPGRADES	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 113-321	7. PROJECT NUMBER LZSL180001	8. PROJECT COST (\$000) 22,000

**12. SUPPLEMENTAL DATA:**

a. Estimated Design Data: Project to be accomplished by design-build procedures.

- (1) Status:
- |  |        |
|--|--------|
| (a) Date Design Started                                    | 18 JAN |
| (b) Parametric Cost Estimates used to develop costs        | YES    |
| (c) Percent Complete as of 18 FEB                          | 10%    |
| (d) Date 35% Designed                                      | 18 MAR |
| (e) Date Design Complete                                   | 18 OCT |
| (f) Energy Study/Life-Cycle analysis was/will be performed | YES    |
- (2) Basis:
- |   |          |
|---|----------|
| (a) Standard or Definitive Design -       | NO       |
| (b) Where Design was Most Recently Used - | Location |
- (3) Total Cost (c) = (a) + (b) or (d) + (e): (1,000)
- |  |   |
|--|---|
| (a) Production of Plans and Specifications | 0 |
| (b) All Other Design Costs                 | 0 |
| (c) Total                                  | 0 |
| (d) Contract                               | 0 |
| (e) In-house                               | 0 |
- (4) Construction Contract Award 19 FEB
- (5) Construction Start 19 MAY
- (6) Construction Completion 20 NOV

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
N/A	N/A	N/A	N/A

<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>			<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> MALACKY AIR BASE, SLOVAKIA		<b>4. PROJECT TITLE</b> ERI: INCREASE POL STORAGE CAPACITY		
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 124-135	<b>7. PROJECT NUMBER</b> LZMC180001	<b>8. PROJECT COST (\$000)</b> 20,000	

**9. COST ESTIMATE**

ITEM	U/M	QUANTITY	UNIT	COST (\$000)
<b>PRIMARY FACILITIES</b>				<b>16,450</b>
Operating Storage, 2,500,000 L Tank, Cut and Cover (124-135)	EA	2	4,510,838	9,022
Pump House (124-135)	EA	2	1,074,037	2,148
Filter, Manifold, Control Building (124-135)	EA	1	1,510,871	1,511
Drain Tank (124-135)	EA	1	352,713	353
Fuel Connections, Utilities (124-135)	LS	1		694
Liquid Fuel Truck Fill Stands (126-925)	EA	2	232,964	466
Liquid Fuel Offload Stand (126-926)	EA	2	1,128,433	2,257
<b>SUPPORTING FACILITIES</b>				<b>1,039</b>
Utilities	LS	1		365
Pavements	SM	2,391	94	224
Site Improvements	LS	1		312
Demolition	LS	1		137
<b>SUBTOTAL</b>				<b>17,489</b>
Contingency (5%)				874
<b>TOTAL CONTRACT COST</b>				<b>18,363</b>
Supervision, Inspection and Overhead (6.5%)				1,194
Design/Build - Design Cost (4% of Subtotal)				700
<b>TOTAL REQUEST</b>				<b>20,257</b>
<b>TOTAL REQUEST (ROUNDED)</b>				<b>20,000</b>
<b>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</b>				40

**10. DESCRIPTION OF PROPOSED CONSTRUCTION:**

Construct an operational jet fuel storage facility using conventional design and construction methods in support of the European Reassurance Initiative (ERI) AF.5 – Improve Airfield Infrastructure. The facility is intended to be compatible with applicable North Atlantic Treaty Organization (NATO), Department of Defense (DoD), Air Force, and host nation design standards. Local materials and construction techniques shall be used where cost effective. Construction includes two cut and cover fuel storage tanks with pump houses, petroleum operations building, two liquid fuel truck fill stands, pipeline, and refueler vehicle parking. Support facilities include site development, utilities and connections, lighting, lightning protection, paving, markings, storm drainage, landscaping, and signage. Facility design will be permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-202-01, Host Nation Facilities in Support of Military Operations, Bi-Strategic Commands (Bi-SC) Directive 85-5 NATO Approved Criteria and Standards for Airfields, AC/4-M(96)001, NATO Approved Technical Criteria and Standards for POL Facilities, and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism requirements per UFC 4-010-01.



1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION MALACKY AIR BASE, SLOVAKIA		4. PROJECT TITLE ERI: INCREASE POL STORAGE CAPACITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 124-135	7. PROJECT NUMBER LZMC180001	8. PROJECT COST (\$000) 20,000

**ADDITIONAL:**

This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements, Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields, and AC/4-M(96)001, NATO Approved Technical Criteria and Standards for POL Facilities. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project and will follow the guidance detailed in the AF Sustainable Design and Development Implementing Guidance Memorandum (dated June 2, 2011) in accordance with applicable laws, Executive Orders, UFC 1-200-02 High Performance and Sustainable Building Requirements, Change 3 dated 7 November 2014, and Engineering Technical Letter (ETL) 14-1 Construction and Operation and Maintenance Guidance for Storm Water Systems, dated 7 August 2014. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSM means were used to develop the estimate for this project. A preliminary analysis of reasonable options for satisfying this requirement indicates only one option will meet mission needs. Therefore, a complete economic analysis was not performed and a request for waiver will be submitted in accordance with Air Force Instruction (AFI) 65-501, 1.2.2.2. An Environmental Baseline Survey is being planned. Aviation Fuel Storage and Distribution System: 10,220,607 L = 2,700,000 GA; Demolition: 1,000 M = 3,281 FT of Pipeline, 2,120 SM = 2,536 SY of Pavement.

**JOINT USE CERTIFICATION:**

These facilities can be used by other components on an 'as available' basis; however, the scope of the project is based on Air Force requirements. This project will be submitted for NATO pre-financing.

FOREIGN CURRENCY: FCF Budget Rate Used: EUROS 0.9329

<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> MALACKY AIR BASE, SLOVAKIA		<b>4. PROJECT TITLE</b> ERI: INCREASE POL STORAGE CAPACITY	
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 124-135	<b>7. PROJECT NUMBER</b> LZMC180001	<b>8. PROJECT COST (\$000)</b> 20,000

**12. SUPPLEMENTAL DATA:**

a. Estimated Design Data: Project to be accomplished by design-build procedures.

- (1) Status:
  - (a) Date Design Started 18 JAN
  - (b) Parametric Cost Estimates used to develop costs YES
  - (c) Percent Complete as of: 18 FEB 10%
  - (d) Date 35% Designed 18 MAR
  - (e) Date Design Complete 18 OCT
  - (f) Energy Study/Life-Cycle analysis will be performed YES
  
- (2) Basis:
  - (a) Standard or Definitive Design - YES
  - (b) Where Design was Most Recently Used -
  
- (3) Total Cost (c) = (a) + (b) or (d) + (e): (1,000)
  - (a) Production of Plans and Specifications 0
  - (b) All Other Design Costs 0
  - (c) Total 0
  - (d) Contract 0
  - (e) In-house 0
  
- (4) Construction Contract Award 19 FEB
  
- (5) Construction Start 19 MAY
  
- (6) Construction Completion 20 NOV

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

EQUIPMENT NOMENCLATURE	PROCURRING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
Furnishings	3400	2019	10
Fuel Bowser, Aircraft NSN 4920-01-550-2061	3400	2019	10
Tank Gauge (2 Each)	3400	2019	20

<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> MALACKY AIR BASE, SLOVAKIA		<b>4. PROJECT TITLE</b> ERI: AIRFIELD UPGRADES	
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 116-661	<b>7. PROJECT NUMBER</b> LZMC180002	<b>8. PROJECT COST (\$000)</b> 4,000

**9. COST ESTIMATE**

<b>ITEM</b>	<b>U/M</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>COST (\$000)</b>
<b>PRIMARY FACILITIES</b>				<b>3,047</b>
Arm/Disarm Pad (116-661)	SM	13,587	215	2,921
Parking Apron Expansion (113-321)	SM	594	190	113
Parking Apron Restriping (113-321)	M	1,457	9	13
<b>SUPPORTING FACILITIES</b>				<b>392</b>
Utilities	LS	1		62
Site Improvements	LS	1		52
Demolition	LS	1		277
<b>SUBTOTAL</b>				<b>3,438</b>
Contingency (5%)				172
<b>TOTAL CONTRACT COST</b>				<b>3,610</b>
Supervision, Inspection and Overhead (6.5%)				235
Design/Build - Design Cost (4% of Subtotal)				138
<b>TOTAL REQUEST</b>				<b>3,982</b>
<b>TOTAL REQUEST (ROUNDED)</b>				<b>4,000</b>
<b>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</b>				<b>0</b>

**10. DESCRIPTION OF PROPOSED CONSTRUCTION:**

Construct an arm/disarm pad and improve the existing Tactical Fighter Aircraft (TFA) parking apron using conventional design and construction methods to accommodate North Atlantic Treaty Organization (NATO)-equivalent TFA. Design aircraft include the F-15 Eagle and A-10 Warthog. Airfield upgrades are in support of European Reassurance Initiative (ERI) AF.5 – Improve Airfield Infrastructure. Construction includes apron pavement using medium-load design, 650-pounds-per-square-inch (psi) portland cement concrete, asphalt shoulders, a separation layer, a drainage layer, a drainage system, edge lighting, mast lighting, pavement markings, and earthwork and grading. Design and construction efforts will be executed in accordance with host-nation agreements for the ERI and Standard NATO Agreements to include construction and environmental permits. Facilities will be designed as permanent construction and will be in accordance with United States Air Forces in Europe Instruction, International Civil Aviation Organization (ICAO) Annex 14, and host nation airfield/airspace siting requirements. In addition, local materials and construction techniques shall be used where cost-effective. This project will comply with DoD antiterrorism requirements per Unified Facilities Criteria (UFC) 4-010-01.



1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION MALACKY AIR BASE, SLOVAKIA		4. PROJECT TITLE ERI: AIRFIELD UPGRADES	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 116-661	7. PROJECT NUMBER LZMC180002	8. PROJECT COST (\$000) 4,000

**ADDITIONAL:**

This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements, Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project and will follow the guidance detailed in the AF Sustainable Design and Development Implementing Guidance Memorandum (dated June 2, 2011) in accordance with applicable laws and Executive Orders. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSMMeans were used to develop the estimate for this project. An Economic Analysis (EA) was not performed because there is only one method possible to accomplish the objective (IAW AFI 65-501, 1.2.2.2). An EA Waiver will be submitted. European Reassurance Initiative Program Manager +49-06371-47-6305. Airfield Upgrades: 14,181 SM = 16,960 SY; Demolition: 4,707 SM = 5,630 SY of pavement.

**JOINT USE CERTIFICATION:**

These facilities can be used by other components on an 'as available' basis; however, the scope of the project is based on Air Force requirements. This project will be submitted for NATO pre-financing.

FOREIGN CURRENCY: FCF Budget Rate Used: EUROS 0.9329

<b>1. COMPONENT</b> AF:USAFE/AFAFRICA	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. DATE</b>
<b>3. INSTALLATION, SITE AND LOCATION</b> MALACKY AIR BASE, SLOVAKIA		<b>4. PROJECT TITLE</b> ERI: AIRFIELD UPGRADES	
<b>5. PROGRAM ELEMENT</b> 27576	<b>6. CATEGORY CODE</b> 116-661	<b>7. PROJECT NUMBER</b> LZMC180002	<b>8. PROJECT COST (\$000)</b> 4,000

**12. SUPPLEMENTAL DATA:**

a. Estimated Design Data: Project to be accomplished by design-build procedures.

- (1) Status:
  - (a) Date Design Started 18 JAN
  - (b) Parametric Cost Estimates used to develop costs YES
  - (c) Percent Complete as of 18 FEB 10%
  - (d) Date 35% Designed 18 MAR
  - (e) Date Design Complete 18 OCT
  - (f) Energy Study/Life-Cycle analysis was/will be performed YES
  
- (2) Basis:
  - (a) Standard or Definitive Design - NO
  - (b) Where Design was Most Recently Used - Location
  
- (3) Total Cost (c) = (a) + (b) or (d) + (e): (1,000)
  - (a) Production of Plans and Specifications 0
  - (b) All Other Design Costs 0
  - (c) Total 0
  - (d) Contract 0
  - (e) In-house 0
  
- (4) Construction Contract Award 19 FEB
  
- (5) Construction Start 19 MAY
  
- (6) Construction Completion 20 NOV

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

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION WORLDWIDE UNSPECIFIED  VARIOUS LOCATIONS		4. PROJECT TITLE ERI - Planning and Design			
5. PROGRAM ELEMENT  91211	6. CATEGORY CODE  961-000	7. RPSUID/PROJECT NUMBER  /PAYZ180002E	8. PROJECT COST (\$000)  56,630		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					56,630
PLANNING AND DESIGN		LS			( 56,630 )
SUPPORTING FACILITIES					0
SUBTOTAL					<u>56,630</u>
TOTAL CONTRACT COST					<u>56,630</u>
TOTAL REQUEST					56,630
TOTAL REQUEST (ROUNDED)					56,630
10. Description of Proposed Construction:					
11. Requirement:      Adequate:      Substandard:					
PROJECT: As required.					
<p>REQUIREMENT: These European Reassurance Initiative planning and design funds are required to complete the design of facilities in the United States European Command in the FY19 Military Construction Program, initiate design of facilities in the FY20 Military Construction Program, and accomplish planning and design for major and complex technical projects with long lead-times to be included in subsequent Military Construction programs. These funds may be used for value engineering and for support of the design and construction management of projects that are funded by foreign governments and for design of classified and special programs. The funds may also be used for developing the Tri-Services Cost Estimating Guide and Unified Facilities Criteria.</p>					

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Department of the Air Force

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**Host Nation  
Military Construction Program**

**Calendar Year (CY) 2018  
Budget Estimates**

**Justification Data Submitted to Congress  
May 2017**

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**DEPARTMENT OF THE AIR FORCE  
HOST NATION MILITARY CONSTRUCTION PROGRAM CALENDAR YEAR 2018  
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**DEPARTMENT OF THE AIR FORCE  
HOST NATION MILITARY CONSTRUCTION CALENDAR YEAR 2018  
PROGRAM SUMMARY**

	<b>Authorization Request <u>(\$000s)</u></b>
<b>Military Construction Construction</b>	<b>19,500</b>
<b>Total Military Construction</b>	<b>19,500</b>

**Strategic Narrative:**

The enclosed justification book represents the United States Forces Korea (USFK) Republic of Korea Funded Construction (ROKFC) program for calendar year 2018. Although the justification book may appear to be a list of individual projects, these projects were developed in coordination between both countries to form an overall consolidated program to meet USFK priorities and Theater Infrastructure Master Plan – Armistice objectives. These projects have been through a detailed scoring and prioritization process with involvement of the component commanders and represent the most critical and urgent USFK operational requirements.

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**DEPARTMENT OF THE AIR FORCE  
 HOST NATION MILITARY CONSTRUCTION PROGRAM  
 CALENDAR YEAR 2018 INDEX  
 (DOLLARS IN THOUSANDS)**

COUNTRY	INSTALLATION	PROJECT	COST
REPUBLIC OF KOREA	Kunsan Air Base	Construct Airfield Damage Repair Warehouse	6,500
		Kunsan Air Base TOTAL:	6,500
	Osan Air Base	Main Gate Entry Control Facilities	13,000
		Osan Air Base TOTAL:	13,000
		REPUBLIC OF KOREA TOTAL:	19,500
		HOST NATION FUNDED CONSTRUCTION TOTAL:	19,500

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1. COMPONENT AIR FORCE		REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE			
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA (PACAF)				4. PROJECT TITLE: CONSTRUCT AIRFIELD DAMAGE REPAIR WAREHOUSE				
5. PROGRAM ELEMENT N/A		6. CATEGORY CODE 219-946	7. PROJECT NUMBER F19R620 (MLWR151034)		8. PROJECT COST (\$000) 6,500			
<b>9. COST ESTIMATES</b>								
ITEM					U/M	QUANTITY	UNIT COST	COST (\$000)
<b>PRIMARY FACILITY</b>								3,299
WRM ADR STORAGE FACILITY					SM	1,858	1,776	(3,299)
<b>SUPPORTING FACILITIES</b>								2,549
UTILITIES					LS			( 362)
PAVEMENTS					SM	10,000	111	(1,110)
SITE IMPROVEMENTS					LS			( 532)
SECURITY FENCE					LM	390	194	( 76)
SPECIAL FOUNDATION					LM	994	190	( 189)
FUEL STORAGE TANK					LS			( 89)
EXTERIOR INFORMATION SYSTEM					LS			(191)
<b>ESTIMATED CONTRACT COST</b>								5,848
CONTINGENCY (5%)								292
<b>SUBTOTAL</b>								6140
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)								399
<b>TOTAL REQUEST</b>								6,539
<b>TOTAL REQUEST (ROUNDED)</b>								6,500
<b>10. DESCRIPTION OF PROPOSED CONSTRUCTION:</b>								
<p>Project is host nation funded. Project constructs a War Readiness Material (WRM) airfield damage repair (ADR) storage facility utilizing economical design and construction methods to accommodate the mission of the facility. The facility will include pre-engineered metal building with a concrete foundation and floor slab, sheet metal walls, standing seam metal roof system, fire protection system, utilities and all other necessary support to ensure a complete and usable facility. Related material handling and large container/cargo yard is also required with the two each gated two-way access points and building access ways. All applicable federal and host nation facility requirements will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p>								
11. REQUIREMENT: 8,815 SM      ADEQUATE: 6,184 SM      SUBSTANDARD: 773 SM								
<u>PROJECT:</u> Construct Airfield Damage Repair Warehouse (Current Mission).								
<u>REQUIREMENT:</u> A properly designed, adequately configured and furnished WRM ADR storage facility is required to provide sheltered storage for ADR assets. It will provide an enclosed and secure area that will eliminate asset deterioration resulting from environmental conditions, reduce theft potential, and increase material life span.								
<u>CURRENT SITUATION:</u> Due to a lack of covered storage, WRM assets are stored in open, exposed areas causing accelerated deterioration as well as potential theft of critically controlled wartime assets. In addition, salty air and sun damage further degrade the ADR assets.								

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA (PACAF)		
4. PROJECT TITLE CONSTRUCT AIR FIELD DAMAGE REPAIR WAREHOUSE	5. PROJECT NUMBER F19R620 (MLWR151034)	
<p><u>IMPACT IF NOT PROVIDED:</u> These assets are required to support the Wolf Pack Mission during contingency operations. Deterioration and potential theft of critically controlled wartime assets will result in a shortage of operable ADR assets in the initial days of conflict. This will have a detrimental effect on the readiness and war fighting capability of the 8th Fighter Wing. The shortage will prevent the air mission from being executed in the event the airfield incurs damage.</p> <p><u>ADDITIONAL:</u> This project meets all criteria specified in Air Force Manual 32-1084, "Facility Requirements." All known alternatives were considered during development of this project. No other feasible alternative could meet mission requirements. Therefore, a complete economic analysis was not performed. The project is located on an enduring installation which will be retained by United States Forces Korea (USFK) for the foreseeable future. Base Civil Engineer: 011-82-63-470-5400, WRM ADR Storage: 1,858 SM = 20,000 SF. Foreign Currency Exchange Rate: FCF Budget Rate Used: 1,156.12 Won</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used on an "as available" basis. However, the scope of the project is based on USAF, USFK, CFC and UNC requirements.</p>		

1. COMPONENT AIR FORCE		REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE	
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA			4. PROJECT TITLE: MAIN GATE ENTRY CONTROL FACILITIES		
5. PROGRAM ELEMENT N/A		6. CATEGORY CODE 730-837	7. PROJECT NUMBER F17R637 (SMYU143003)	8. PROJECT COST (\$000) \$13,000	
<b>9. COST ESTIMATES</b>					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
<b><u>PRIMARY FACILITY</u></b>					<b>4,322</b>
VISITOR CONTROL CENTER		SM	274	5,361	(1,469)
SFS GATE HOUSE		SM	81	13,778	(1,116)
MAIN GATE		EA	1	543,000	(543)
VEHICLE ID CHECK FACILITY		SM	185	1,778	(329)
POV DETAIL INSPECTION FACILITY		SM	177	3,068	(543)
GUARD BOOTH		EA	3	79,000	(237)
SUSTAINABILITY AND ENERGY MEASURES		LS			(85)
<b><u>SUPPORTING FACILITIES</u></b>					<b>7,249</b>
DEMOLITION		SM	725	150	(109)
TRANSPORTING CONTAMINATED SOIL		LS			(131)
SITE IMPROVEMENTS / RETAINING WALL		LS			(2,096)
UTILITIES		LS			(660)
SITE ELECTRICAL WORK		LS			(1,354)
ACTIVE VEHICLE CONTROL & MONITORING SYSTEM		LS			(1,490)
COMMUNICATIONS SUPPORT		LS			(323)
PAVEMENTS		SM	11,175	52	(581)
ACTIVE & PASSIVE BARRIER		LS			(505)
<b>SUBTOTAL</b>					<b>11,571</b>
CONTINGENCY (5%)					579
<b>TOTAL CONTRACT COST</b>					<b>12,150</b>
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					790
<b>TOTAL REQUEST</b>					12,940
<b>TOTAL REQUEST (ROUNDED)</b>					<b>13,000</b>
<b>10. DESCRIPTION OF PROPOSED CONSTRUCTION:</b>					
<p>This project is host nation funded. Project will construct a new main gate entry control facility, a visitor control center, a detention area, a pedestrian ID check facility, a SFS gate house, a main gate, a vehicle ID check facility, a POV detail inspection facility, guard booths and all supporting facilities to ensure a complete and usable facility. This project will also provide all required construction items such as transportation, site development, utilities and connections, lighting, security aerial lighting and CCTV, paving, parking, sidewalks, storm drainage, retaining wall, asbestos removal and transporting contaminated soil, landscaping, and signage. This project will require demolition of all existing facilities currently located in the proposed project site location. Facility will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Antiterrorism/force protection requirements per UFC 4-010-01. This project fulfills US requirements only and will be designed and constructed for US exclusive use.</p> <p>Air Conditioning: 22 Tons</p>					
11. REQUIREMENT: 717 SM		ADEQUATE: 0		SUBSTANDARD: 99 SM	
<u>PROJECT:</u> Main Gate Entry Control Facilities. (Current Mission)					

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA		
4. PROJECT TITLE MAIN GATE ENTRY CONTROL FACILITIES		5. PROJECT NUMBER SMYU143003
<p><u>REQUIREMENT:</u> Entry control facilities ensure the proper level of access control for all Department of Defense (DoD) personnel, visitors, and commercial traffic to an installation. The objective of an Entry Control Facility (ECF) is to secure the installation from unauthorized access and intercept contraband (weapons, explosives, drugs, classified material, etc.) while maximizing vehicular traffic flow.</p> <p><u>CURRENT SITUATION:</u> The existing facility does not have adequate queuing, causing delays for inspections as well as traffic backup in excess of 50 yards from the installation boundary during high-volume traffic periods. Processing for pedestrians is delayed due to a lack of administrative space for security control personnel. There is currently no public waiting area for individuals awaiting permission to enter the installation.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Without an adequate ECF, Osan AB will continue to experience delays for personnel and vehicle processing. Regularly causing a line of vehicles waiting to enter the installation will continue to be a force protection concern and safety hazard to motorists queuing outside the installation. If a properly designed and functioning entry control facility is not provided, vehicles will continue to be inspected inside the perimeter of the installation presenting a security risk.</p> <p><u>ADDITIONAL:</u> This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." This project is eligible for Republic of Korea Funded Construction (ROKFC) and will be submitted as part of a ROKFC program. No portion of this facility is intended for Republic of Korea personnel exclusive or primary use. The project is located on an enduring installation which will be retained by United States Forces Korea (USFK) for the foreseeable future. Base Civil Engineer: 011-82-31-661-4312. Main Entry Control Facilities: 717 SM = 7,718 SF. Foreign Currency Exchange Rate: FCF Budget Rate Used: 1,156.12 Won</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used on an "as available" basis. However, the scope of the project is based on USAF, USFK, CFC and UNC requirements.</p>		



# **Department of the Air Force**

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## **Military Family Housing**

**Fiscal Year (FY) 2018**

**Budget Estimate**

**Justification Data Submitted to Congress**

**May 2017**



**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

NARRATIVE SUMMARY

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

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

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

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

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

FY 2018 FINANCIAL SUMMARY

AUTHORIZATION FOR APPROPRIATION REQUESTED FOR FY 2018:

	<u>(\$000)</u>
<u>FUNDING REQUEST FY 2018</u>	
Construction	\$0
Construction Improvements	\$80,617
Planning and Design	\$4,445
<u>Appropriation Request: Construction</u>	\$85,062
Operations, Utilities and Maintenance	\$279,937
Operating Expenses	\$98,244
Utilities	\$47,504
Maintenance	\$134,189
Housing Privatization	\$21,569
Leasing - Worldwide	\$16,818
<u>Appropriation Request: O&amp;M, Leasing, Housing Privatization</u>	\$318,324
<u>Appropriation Request</u>	\$403,386
Reimbursement Request	\$5,715
 FY 2018 FAMILY HOUSING REQUEST	 \$409,101

**DEPARTMENT OF AIR FORCE**  
**FH-11 Inventory and Condition of Government-Owned, Family Housing Units**  
**WORLDWIDE**  
**(Number of Dwelling Units in Inventory)**  
**Fiscal Year 2018**

	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>Beginning of FY Adequate Inventory Total</b>	12,481	13,125	13,096	12,675	12,529	12,849	12,278
FCI of 90% to 100% (Good Condition)	10,190	10,022	9,275	8,844	7,988	7,668	6,976
FCI of 80% to 89% (Fair Condition)	2,291	3,103	3,821	3,831	4,541	5,181	5,302
<b>Beginning of FY Inadequate Inventory Total</b>	5,889	4,497	3,904	3,149	2,928	2,421	2,593
FCI of 60% to 79% (Poor Condition)	5,253	3,759	3,267	2,551	1,622	1,443	1,939
FCI of 59% and below (Failing Condition)	636	738	637	598	1,306	978	654
<b>Beginning of FY Total Inventory</b>	18,370	17,622	17,000	15,824	15,457	15,270	14,871
<b>Percent Adequate - Beginning of FY Inventory</b>	<b>68%</b>	<b>74%</b>	<b>77%</b>	<b>80%</b>	<b>81%</b>	<b>84%</b>	<b>83%</b>
<b>Inadequate Inventory Reduced Through:</b>	(617)	(593)	(755)	(221)	(507)	172	77
Construction (FHCON)	(51)	(216)	(130)	(108)	(127)	(113)	(82)
Maintenance & Repair (FHO&M)	(274)	(287)	(204)	(122)	(120)	(136)	(140)
Privatization	-	-	2	(100)	-	-	-
Demolition/Divestiture/Diversion/Conversion	(630)	(622)	(614)	(233)	(329)	(403)	(186)
Funded by Host Nation	-	-	-	-	-	-	-
Additional Inadequate Units Identified	338	532	191	342	69	824	485
<b>Adequate Inventory Changes:</b>	(131)	(29)	(421)	(146)	320	(571)	(252)
Construction (FHCON)	51	216	130	146	159	146	110
Maintenance & Repair (FHO&M)	274	287	204	122	120	136	140
Privatization	-	-	-	-	-	-	-
Demolition/Divestiture/Diversion/Conversion	(118)	-	(564)	(72)	-	(147)	(17)
Funded by Host Nation	-	-	-	-	110	118	-
Additional Inadequate Units Identified	(338)	(532)	(191)	(342)	(69)	(824)	(485)
<b>End of FY Adequate Inventory Total</b>	13,125	13,096	12,675	12,529	12,849	12,278	12,026
FCI of 90% to 100% (Good Condition)	10,022	9,275	8,844	7,988	7,668	6,976	6,502
FCI of 80% to 89% (Fair Condition)	3,103	3,821	3,831	4,541	5,181	5,302	5,524
<b>End of FY Inadequate Inventory Total</b>	4,497	3,904	3,149	2,928	2,421	2,593	2,670
FCI of 60% to 79% (Poor Condition)	3,759	3,267	2,551	1,622	1,443	1,939	2,088
FCI of 59% and below (Failing Condition)	738	637	598	1,306	978	654	582
<b>End of FY Total Inventory</b>	17,622	17,000	15,824	15,457	15,270	14,871	14,696
<b>Percent Adequate - End of FY Inventory</b>	<b>74%</b>	<b>77%</b>	<b>80%</b>	<b>81%</b>	<b>84%</b>	<b>83%</b>	<b>82%</b>
<b>DoD Performance Goal - 90% of world-wide family housing inventory at FCI of at least 80% (Good or Fair Condition)</b>	<b>90%</b>						

**NOTES:**

1 - Facility Condition Index (FCI) is a general measure at a specific point in time with respect to physical condition and ability to support the current occupant or mission. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition.

2 - Recently completed Housing Community Profiles (HCP) at the 3 Japan bases and 4 installations in Europe in conjunction with the on-going Family Housing Master Plan has provided updated assessment data and an investment, sustainment, and divestiture strategy for the worldwide AF government-owned inventory. Improvements in percent adequate during the FYDP reflect investment and divestiture plans in Okinawa, divestiture at Misawa and Yokota in support of the Japan Optimization Plan, and improvements and divestiture in support of the European Infrastructure Consolidation (EIC) plan.

3 - Drop in percent adequacy in FY21 is due to stairwell units in Germany and tower units in Japan reaching the 20 year plus mark since last renovation.

**DEPARTMENT OF AIR FORCE**  
**FH-11 Inventory and Condition of Government-Owned, Family Housing Units**  
**UNITED STATES (CONUS plus Hawaii and Alaska)**  
**(Number of Dwelling Units in Inventory)**  
**Fiscal Year 2018**

	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>Beginning of FY Adequate Inventory Total</b>	-	-	-	-	-	-	-
FCI of 90% to 100% (Good Condition)	-	-	-	-	-	-	-
FCI of 80% to 89% (Fair Condition)							
<b>Beginning of FY Inadequate Inventory Total</b>	109	109	109	111	2	2	2
FCI of 60% to 79% (Poor Condition)	109	109	109	111	2	2	2
FCI of 59% and below (Failing Condition)	-	-	-	-	-	-	-
<b>Beginning of FY Total Inventory</b>	109	109	109	111	2	2	2
<b>Percent Adequate - Beginning of FY Inventory</b>	<b>0%</b>						
<b>Inadequate Inventory Reduced Through:</b>	-	-	2	(109)		-	-
Construction (FHCON)	-	-				-	-
Maintenance & Repair (FHO&M)	-	-				-	-
Privatization	-		2	(100)		-	-
Demolition/Divestiture/Diversion/Conversion	-			(9)		-	-
Funded by Host Nation	-	-	-			-	-
Additional Inadequate Units Identified:	-	-	-			-	-
<b>Adequate Inventory Changes:</b>	-	-	-			-	-
Construction (FHCON)	-	-	-			-	-
Maintenance & Repair (FHO&M)	-	-	-			-	-
Privatization	-		-	-	-	-	-
Demolition/Divestiture/Diversion/Conversion	-	-	-	-	-	-	-
Funded by Host Nation	-	-	-	-	-	-	-
Additional Inadequate Units Identified	-	-	-	-	-	-	-
<b>End of FY Adequate Inventory Total</b>	-	-	-	-	-	-	-
FCI of 90% to 100% (Good Condition)	-	-	-				
FCI of 80% to 89% (Fair Condition)							
<b>End of FY Inadequate Inventory Total</b>	109	109	111	2	2	2	2
FCI of 60% to 79% (Poor Condition)	109	109	111	2	2	2	2
FCI of 59% and below (Failing Condition)	-	-	-				
<b>End of FY Total Inventory</b>	109	109	111	2	2	2	2
<b>Percent Adequate - End of FY Inventory</b>	<b>0%</b>						

**NOTES:**

- 1 - Facility Condition Index (FCI) is a general measure at a specific point in time with respect to physical condition and ability to support the current occupant or mission. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition.
- 2 - Privatization of the 100 historic-eligible units at Wright-Patterson AFB is still under review and therefore delayed to FY19. The 9 Eglin units are planned for divestiture in FY19.
- 3 - Early termination of the USAFA privatized housing project lease of property for the two GOQ parcels (Carlton and Otis houses) and reversion of the two GOQs to the AF in FY18.

**DEPARTMENT OF AIR FORCE**  
**FH-11 Inventory and Condition of Government-Owned, Family Housing Units**  
**FOREIGN (includes U.S. Territories)**  
**(Number of Dwelling Units in Inventory)**  
**Fiscal Year 2018**

	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>Beginning of FY Adequate Inventory Total</b>	12,481	13,125	13,096	12,675	12,529	12,849	12,278
FCI of 90% to 100% (Good Condition)	10,190	10,022	9,275	8,844	7,988	7,668	6,976
FCI of 80% to 89% (Fair Condition)	2,291	3,103	3,821	3,831	4,541	5,181	5,302
<b>Beginning of FY Inadequate Inventory Total</b>	5,780	4,388	3,795	3,038	2,926	2,419	2,591
FCI of 60% to 79% (Poor Condition)	5,144	3,650	3,158	2,440	1,620	1,441	1,937
FCI of 59% and below (Failing Condition)	636	738	637	598	1,306	978	654
<b>Beginning of FY Total Inventory</b>	18,261	17,513	16,891	15,713	15,455	15,268	14,869
<b>Percent Adequate - Beginning of FY Inventory</b>	<b>68%</b>	<b>75%</b>	<b>78%</b>	<b>81%</b>	<b>81%</b>	<b>84%</b>	<b>83%</b>
<b>Inadequate Inventory Reduced Through:</b>	(617)	(593)	(757)	(112)	(507)	172	77
Construction (FHCON)	(51)	(216)	(130)	(108)	(127)	(113)	(82)
Maintenance & Repair (FHO&M)	(274)	(287)	(204)	(122)	(120)	(136)	(140)
Privatization							
Demolition/Divestiture/Diversion/Conversion	(630)	(622)	(614)	(224)	(329)	(403)	(186)
Funded by Host Nation							
Additional Inadequate Units Identified:	338	532	191	342	69	824	485
<b>Adequate Inventory Changes:</b>	(131)	(29)	(421)	(146)	320	(571)	(252)
Construction (FHCON)	51	216	130	146	159	146	110
Maintenance & Repair (FHO&M)	274	287	204	122	120	136	140
Privatization							
Demolition/Divestiture/Diversion/Conversion	(118)		(564)	(72)	-	(147)	(17)
Funded by Host Nation					110	118	
Additional Inadequate Units Identified:	(338)	(532)	(191)	(342)	(69)	(824)	(485)
<b>End of FY Adequate Inventory Total</b>	13,125	13,096	12,675	12,529	12,849	12,278	12,026
FCI of 90% to 100% (Good Condition)	10,022	9,275	8,844	7,988	7,668	6,976	6,502
FCI of 80% to 89% (Fair Condition)	3,103	3,821	3,831	4,541	5,181	5,302	5,524
<b>End of FY Inadequate Inventory Total</b>	4,388	3,795	3,038	2,926	2,419	2,591	2,668
FCI of 60% to 79% (Poor Condition)	3,650	3,158	2,440	1,620	1,441	1,937	2,086
FCI of 59% and below (Failing Condition)	738	637	598	1,306	978	654	582
<b>End of FY Total Inventory</b>	17,513	16,891	15,713	15,455	15,268	14,869	14,694
<b>Percent Adequate - End of FY Inventory</b>	<b>75%</b>	<b>78%</b>	<b>81%</b>	<b>81%</b>	<b>84%</b>	<b>83%</b>	<b>82%</b>

**NOTES:**

1 - Facility Condition Index (FCI) is a general measure at a specific point in time with respect to physical condition and ability to support the current occupant or mission. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition.

2 - Host Nation construction beginning in FY20 is at Okinawa, Japan.

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

**FH-8 Air Force Inadequate Family Housing Units Eliminated in FY2016**

<b>MAJCOM</b>	<b>Project Type</b>	<b>Base</b>	<b>Total Inventory Minus Leased &amp; Privatized</b>	<b>Total Inadequate Inventory</b>	<b>Total Inadequate Addressed</b>
<b>Units at the Beginning of FY2016</b>			<b>18,370</b>	<b>5,114</b>	
<b>Additional Inadequate Units Identified</b>			<b>0</b>	<b>338</b>	<b>0</b>
PACAF	Condition Adjustment	Misawa		138	
PACAF	Condition Adjustment	Okinawa		156	
PACAF	Condition Adjustment	Osan		10	
USAFE	Condition Adjustment	RAF Lakenheath		34	
<b>FY2016 Family Housing Construction, Improvement, and O&amp;M Projects to Eliminate Inadequate Units</b>			<b>0</b>	<b>(325)</b>	<b>325</b>
PACAF	FHO&M	Okinawa		(274)	274
PACAF	FHCON	Yokota		(51)	51
<b>Privatization Projects Executed</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>Units Demolished/Divested FY2016</b>			<b>(748)</b>	<b>(630)</b>	<b>630</b>
PACAF	Divested	Misawa	(192)	(56)	56
PACAF	Divested	Yokota	(284)	(284)	284
USAFE	Demolished	Kaiserslautern	(194)	(194)	194
USAFE	Divested	Lajes Field	(106)	(96)	96
USAFE	Divested	Moron	(12)	0	0
USAFE	Correction	KMC	36	0	0
PACAF	Correction	Yokota	4	0	0
<b>Deficit Construction</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>Host Nation Construction projects</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>Units at End of FY2016</b>			<b>17,622</b>	<b>4,497</b>	<b>955</b>
<p>Notes: 1. Corrections due to on-going site assessments which identified 36 units at KMC obtained from the Army in FY14 not accounted for in previous BES exhibits plus 4 units at Yokota that were not divested.</p> <p>2. FHCON project is for 53 units at Yokota even though only 51 impact adequacy. 53 units are inadequate per the BCI but only 51 units per the FCI in FY16.</p> <p>3. FHO&amp;M investment in Okinawa to support the Japan Housing Optimization Plan as incorporated in the Family Housing Master Plan.</p> <p>4. Divestiture based on Family Housing Master Plan.</p>					

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

**FH-8 Air Force Inadequate Family Housing Units Eliminated in FY2017**

<b>MAJCOM</b>	<b>Project Type</b>	<b>Base</b>	<b>Total Inventory Minus Leased &amp; Privatized</b>	<b>Total Inadequate Inventory</b>	<b>Total Inadequate Addressed</b>
<b>Units at the Beginning of FY2017</b>			<b>17,622</b>	<b>4,497</b>	
<b>Additional Inadequate Units Identified</b>			<b>0</b>	<b>532</b>	<b>0</b>
PACAF	Condition Adjustment	Misawa		212	
PACAF	Condition Adjustment	Okinawa		4	
PACAF	Condition Adjustment	Yokota		140	
USAFE	Condition Adjustment	KMC		96	
USAFE	Condition Adjustment	RAF Croughton		8	
USAFE	Condition Adjustment	RAF Lakenheath		72	
<b>FY2017 Family Housing Construction, Improvement, and O&amp;M Projects to Eliminate Inadequate Units</b>			<b>0</b>	<b>(503)</b>	<b>503</b>
PACAF	FHCON	Okinawa		(214)	214
PACAF	FHO&M	Okinawa		(287)	287
USAFE	FHCON	Moron		(2)	2
<b>Privatization Projects Executed</b>					
<b>Units Demolished/Divested FY2017</b>			<b>(622)</b>	<b>(622)</b>	<b>622</b>
PACAF	Divest	Misawa	(68)	(68)	68
PACAF	Demolish	Okinawa	(155)	(155)	155
USAFE	Divest	Incirlik	(67)	(67)	67
USAFE	Divest	Spang (Bitburg)	(332)	(332)	332
<b>Deficit Construction</b>					
<b>Host Nation Construction projects</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>Units at End of FY2017</b>			<b>17,000</b>	<b>3,904</b>	<b>1,125</b>
Notes: 1. FHO&M and FHCON investment in Okinawa to support the Japan Housing Optimization Plan as incorporated in the Family Housing Master Plan.					
2. Divestiture based on Family Housing Master Plan.					

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

**FH-8 Air Force Inadequate Family Housing Units Eliminated in FY2018**

<b>MAJCOM</b>	<b>Project Type</b>	<b>Base</b>	<b>Total Inventory Minus Leased &amp; Privatized</b>	<b>Total Inadequate Inventory</b>	<b>Total Inadequate Addressed</b>
<b>Units at the Beginning of FY2018</b>			<b>17,000</b>	<b>3,904</b>	
<b>Additional Inadequate Units Identified</b>			<b>0</b>	<b>191</b>	<b>0</b>
PACAF	Condition Adjustment	Okinawa		3	
PACAF	Condition Adjustment	Yokota		71	
USAFE	Condition Adjustment	KMC		108	
USAFE	Condition Adjustment	RAF Lakenheath		9	
<b>FY2018 Family Housing Construction, Improvement, and O&amp;M Projects to Eliminate Inadequate Units</b>			<b>0</b>	<b>(334)</b>	<b>334</b>
PACAF	FHCON	Okinawa		(130)	130
PACAF	FHO&M	Okinawa		(204)	204
<b>Privatization Projects Executed</b>			<b>2</b>	<b>2</b>	<b>0</b>
USAFA	Acquire From PH	USAFA	2	2	0
<b>Units Demolished/Divested FY2018</b>			<b>(1,178)</b>	<b>(614)</b>	<b>614</b>
PACAF	Divest	Misawa	(204)	(68)	68
PACAF	Demolish	Okinawa	(86)	(86)	86
PACAF	Divest	Yokota	(425)	(425)	425
USAFE	Divest	Lajes Field	(350)	(10)	10
USAFE	Divest	RAF Lakenheath	(88)	0	0
USAFE	Divest	RAF Menwith Hill	(25)	(25)	25
<b>Deficit Construction</b>					
<b>Host Nation Construction projects</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>Units at End of FY2018</b>			<b>15,824</b>	<b>3,149</b>	<b>948</b>
Notes: 1. FHO&M and FHCON investment in Okinawa to support the Japan Housing Optimization Plan as incorporated in the Family Housing Master Plan.					
2. Divestiture based on Family Housing Master Plan.					
3. Early termination of the USAFA privatized housing project lease of property for the two GOQ parcels (Carlton and Otis houses) and reversion of the two GOQs to the AF in FY18.					
4. Lajes Field divestiture completes return of MFH to host nation.					

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

FY 2018 AUTHORIZATION LANGUAGE

SEC. 2302. FAMILY HOUSING

Using amounts appropriate pursuant to the authorization of appropriations in Section 2304(a)(5)(A), the Secretary of the Air Force may carry out architectural and engineering services and construction design activities with respect to the construction or improvement of military family housing units in an amount not to exceed [\$4,368,000] \$4,445,000.

SEC. 2303. IMPROVEMENT TO MILITARY FAMILY HOUSING UNITS

Subject to section 2825 of Title 10, United States Code, and using amounts appropriated pursuant to the authorization of appropriations in Section 2304(a)(5)(A), the Secretary of the Air Force may improve existing military family housing units in an amount not to exceed [\$56,984,000] \$80,617,000.

SEC. 2304. AUTHORIZATION OF APPROPRIATIONS, AIR FORCE

(a) IN GENERAL

(5) For Military Family Housing functions –

(A) For planning and design, and improvement of military family housing and facilities, [\$61,352,000] \$85,062,000.

(B) For support of military family housing (including functions described in section 2831 of Title 10, United States Code), [\$274,429,000] \$318,324,000.

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

FY 2018 APPROPRIATION LANGUAGE

Family Housing Construction, Air Force

For expenses of family housing for the Air Force for construction, including acquisition, replacement, addition, expansion, extension and alteration, as authorized by law, [\$61,352,000] \$85,062,000 to remain available until September 30, 2022.

Family Housing Operations and Maintenance, Air Force

For expenses of family housing for the Air Force for operations and maintenance, including, leasing, minor construction, principal and interest charges, and insurance premiums, as authorized by law [\$274,429,000] \$318,324,000.

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

FY 2018 CONSTRUCTION IMPROVEMENTS

Budget Request (\$000)

FY 2018 Budget Request \$ 80,617

FY 2017 Budget Request \$ 56,984

Purpose and Scope

The Air Force has approximately 17,000 owned units in the beginning of FY 2018. The average age of housing units in the Air Force's inventory is close to 30 years.

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

Budget Request Summary

Authorization is requested for:

- (1) Various improvements to existing public quarters as described on DD Form 1391
- (2) Appropriation of \$80,617,000 to fund projects in FY 2018

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1. COMPONENT AIR FORCE		FY 2018 MILITARY CONSTRUCTION PROJECT DATA			2. DATE	
3. INSTALLATION AND LOCATION KADENA AB, OKINAWA, JAPAN				4. PROJECT TITLE FAMILY HOUSING CONSTRUCTION IMPROVEMENTS		
5. PROGRAM ELEMENT 88742		6. CATEGORY CODE 711-000	7. PROJECT NUMBER		8. PROJECT COST (\$000) 73,299	
9. COST ESTIMATE						
ITEM			U/M	QUANTITY	UNIT COST	COST (\$000)
CONSTRUCTION IMPROVEMENTS PROJECTS TO IMPROVE HOUSING UNITS			UN	130		80,617
TOTAL REQUEST						80,617
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION: Provide whole house interior and exterior modernization, renovation, and repair of 130 family housing units. Upgrades interior and exterior utility and communication infrastructure to meet current standards. Upgrades kitchen, bathrooms, and floor coverings, and improves the overall floor plan as per 2015 Housing Community Profile report. Neighborhood repairs include handicap access and markings on street system/sidewalk, landscaping, roadways, signage and exterior lighting. Also, environmental (asbestos/lead) sampling, testing, remediation and disposal will be conducted</p> <p>11. PROJECT: This request is for an authorization and appropriation of \$80.617 million to accomplish improvements in family housing at Kadena AB, Okinawa, Japan.</p> <p><b>REQUIREMENT:</b> To provide modern and efficient housing for military members and their families in Okinawa, Japan. The housing must be upgraded to meet current life safety codes and to provide a comfortable and appealing living conditions. All units will meet the “whole house” standards and are programmed in accordance with the 2015 Housing Community Profile. Whole-house improvements, include, but are not limited to: Kitchen upgrades, bathroom additions/upgrades, repair/replacement of roofs, upgrade of mechanical and electrical systems, replacement of windows, doors, floors, and exterior improvements (patios, fences, storages, etc.)</p> <p><b>CURRENT SITUATION:</b> This project upgrades and modernizes housing units which were constructed in the 1950s, 1960s, and 1990s. These housing units require major renovation and repair to correct deterioration resulting from age and heavy use, most do not meet the needs of today's families, nor do they provide a modern home environment. Kitchens do not provide adequate storage, cabinet space or countertop area and are not functionally arranged. Plumbing and lighting fixtures are deteriorated. The electrical systems do not meet current codes. Ground fault circuit interrupter protection is not provided for bathrooms, kitchens, and exterior circuits. Flooring, windows, and roofing require replacement. The units have inadequate living space and storage.</p> <p><b>ADDITIONAL:</b> These projects meet the criteria/scope specified in Part II of Military Handbook 1190, “Facility Planning and Design Guide.” Energy evaluation/life-cycle cost analysis was performed in support of these projects. The Air Force will improve existing family housing units up to the following size: E1-E6: 2 BR (1080 NSF/1340 GSF), 2 BR Modified (1180 NSF/1480 GSF), 3 BR (1310 NSF/1630 GSF), 4 BR (1570 NSF/1950 GSF), 5 BR (1850 NSF/2300 GSF); E7-E9/O1-O3: 2 BR (1200 NSF/1490 GSF), 2 BR Modified (1350 NSF/1670 GSF), 3 BR (1500 NSF/1860 GSF), 4 BR (1730 NSF/2150 GSF), 5 BR (2020 NSF/2510 GSF); O4-O5: 3 BR (1630 NSF/2020 GSF), 4 BR (1860 NSF/2310 GSF); O-6: 4 BR (2030 NSF/2520 GSF); O-7: 4 BR (2690 NSF/3330 GSF).</p>						

1. COMPONENT AIR FORCE	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>	2. DATE
3. INSTALLATION AND LOCATION KADENA AB, OKINAWA, JAPAN		
4. PROJECT TITLE CONSTRUCTION IMPROVEMENTS	5. PROJECT NUMBER	
10. Description of work to be accomplished		
Location and Project	Current Working Estimate (\$000)	
KADENA AB IMPROVE FAMILY HOUSING (SEBILLE MANOR) LXEZ184546	65,503	
Provide whole house interior and exterior modernization, renovation and repair of 100 family housing duplex and townhouse units (26 JNCO 3-BR units and 74 SNCO 4-BR units). Work to include, but is not limited to, the restoration and repair of units shell and core to include landscaping, pavement, exterior structure, interior structure, roof structure, and porch; building systems to include mechanical, electrical, plumbing, fire, life and safety, and environmental; and interior spaces to include the foyer, living room, dining room, kitchen, bedrooms, bathrooms, storage, laundry room, closets, hallways, and staircases. Neighborhood repairs will include handicap access and markings on street system/sidewalk, landscaping, roadways, signage and exterior lighting. (Separate DD Form 1391 attached)		
<ul style="list-style-type: none"> <li>- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None</li> <li>- WORK PROGRAMMED FOR NEXT THREE YEARS: None</li> </ul>		
KADENA AB IMPROVE FAMILY HOUSING (NORTH TERRACE) LXEZ184581	9,717	
Provide whole house interior and exterior modernization, renovation and repair of eighteen (18) housing units (12 single family units and 6 duplex units). Upgrades interior and exterior utility, communication infrastructure, landscaping, trash enclosure, road surfaces, parking/driveway, sidewalk with ADA compliance ramps, pavement marking including pedestrian and other support facilities to meet current standards. Replaces windows, exterior and interior doors including frames. Upgrades kitchen with the provision of secondary dining or pass-through counter. Improves bathrooms, bedrooms, laundry, hallway, foyer, closets, porch, patio, storage, mechanical room, roof covering, electrical, communication, plumbing, water distribution, waste collection system and HVAC system including duct work. Includes demolition, disposal, HAZMAT remediation, testing/abatement for asbestos/mold/lead based paint, provision of radon management system, and smoke detectors. (Separate DD Form 1391 attached)		
<ul style="list-style-type: none"> <li>- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None</li> <li>- WORK PROGRAMMED FOR NEXT THREE YEARS: None</li> </ul>		
KADENA AB IMPROVE FAMILY HOUSING (KADENA HEIGHTS) LXEZ184543	5,397	
Provide whole house interior and exterior modernization, renovation and repair of 12 JNCO 4-BR family housing units. Upgrades interior and exterior service lateral utilities, communication infrastructure, landscaping, trash enclosure, road/parking surfaces, sidewalk, pavement marking, roof covering, patio, and mechanical room. Work includes replacement of windows, exterior and interior doors including frames. Upgrades kitchen with the provision of secondary dining or pass-through counter. Improves interior spaces to include living room, dining room, family room, bathrooms, bedrooms, laundry, hallways, stairs, storage, closets and electrical, communication, plumbing, water distribution, waste collection and HVAC systems. Includes demolition, disposal, HAZMAT remediation, testing/abatement for asbestos/mold/lead based paint. (Separate DD Form 1391 attached)		
<ul style="list-style-type: none"> <li>- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None</li> <li>- WORK PROGRAMMED FOR NEXT THREE YEARS: None</li> </ul>		

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE # 1 JAPAN			4. PROJECT TITLE IMPROVE FAMILY HOUSING, KAB NORTH TERRACE		
5. PROGRAM ELEMENT 88742	6. CATEGORY CODE 711-143	7. RPSUID/PROJECT NUMBER 2405/LXEZ184581	8. PROJECT COST (\$000) 9,717		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES					8,191
UNIT TYPE, F2-56 (JNCO 2BR)		UN	7	418,169	( 2,927)
UNIT TYPE, G3-56 (SNCO 3BR)		UN	2	560,667	( 1,121)
UNIT TYPE, H4-56 (JNCO 4BR)		UN	3	558,623	( 1,676)
UNIT TYPE, K2-56 (JNCO 2BR)		UN	6	384,277	( 2,306)
SUSTAINABILITY & ENERGY MEASURES		LS			( 161)
SUPPORTING FACILITIES					499
INFRASTRUCTURE		LS			( 280)
PAVEMENT		LS			( 219)
SUBTOTAL					8,689
CONTINGENCY (5.0%)					434
TOTAL CONTRACT COST					9,124
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					593
TOTAL REQUEST					9,717
AREA COST FACTOR		1.88			
10. Description of Proposed Work: Provide whole house interior and exterior modernization, renovation and repair of eighteen (18) housing units. The work shall consist of, but is not limited to, providing all labors, materials, transportation, and performing all work necessary for the improvements to the family housing. Upgrades interior and exterior utility, communication infrastructure, landscaping, trash enclosure, road surfaces, parking/driveway, sidewalk with ADA compliance ramps, pavement marking including pedestrian and other support facilities to meet current standards. Replace windows, exterior and interior doors including frames. Upgrade kitchen with the provision of secondary dining or pass-through counter, bathrooms, bedrooms, laundry, hallway, foyer, closets, porch, patio, storages, mechanical room, roof covering, electrical, communication, plumbing, water distribution and waste collection system. Upgrade HVAC system including duct work to accommodate the unit demand and comply with the current SEER requirement. Conduct electrical survey to ensure the new power load is compatible with the existing service feeder line. Include demolition, disposal, HAZMAT remediation, testing/abatement for asbestos/mold/lead based paint, provision of radon management system, smoke detector and other work necessary to complete the project, to provide a ready and usable facility. The overall facility improvement shall be permanent and designed to meet the current Family Housing Standard and shall be in accordance with UFC 1-200-02 High Performance and Sustainable Building, UFC 3-600-01 Fire Protection Requirement and other latest applicable DoD Unified Facilities Criteria.					
11. Requirement: 6928 UN Adequate: 4612 UN Substandard: 3208 UN <u>PROJECT:</u> IMPROVE FAMILY HOUSING, KAB NORTH TERRACE (18 UN) <u>REQUIREMENT:</u> This project is required to provide modern and efficient housing for military members and their dependents stationed in Okinawa, Japan. The housing					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE # 1 JAPAN			4. PROJECT TITLE IMPROVE FAMILY HOUSING, KAB NORTH TERRACE	
5. PROGRAM ELEMENT  88742	6. CATEGORY CODE  711-143	7. RPSUID/PROJECT NUMBER  2405/LXEZ184581	8. PROJECT COST (\$000)  9,717	
<p>must be upgraded to meet current life safety codes and to provide a comfortable and appealing living environment. All units will meet whole house standards and are programmed in accordance with the Housing Community Profile. Renovated housing will provide a modern kitchen, living room, family bedroom and bath configuration. Dwelling units will be reconfigured as recommended by the Housing Community Profile report. Interior and exterior utility and communication infrastructure, roadway, parking, community and neighborhood improvements are required.</p> <p><u>CURRENT SITUATION:</u> This project upgrades and modernizes housing that was built by the US Government in the 1950s. The units require major renovation and repair to correct system deterioration, meet modern standards, and provide major home improvements. They have had no major home improvements or major upgrades since construction. Kitchen and bathroom cabinets and fixtures are obsolete and deteriorated. Counter tops are scratched. Plumbing and lighting fixtures are deteriorated and antiquated. The electrical system does not meet modern standards and codes. Floor covering is stained and mismatched due to non-availability of similar materials for replacement. Exterior surfaces and roof require repair and windows, doors and frames require replacement. Parking areas dedicated for housing residents are deficient. Utilities systems are deficient and old.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Units will continue to deteriorate rapidly, resulting in increasing operation, maintenance and repair to the government and inconvenience to residents. Without this project, repair of these units will continue in a costly, piecemeal fashion with little or no improvement in living quality.</p> <p><u>ADDITIONAL:</u> The project is for North Terrace, buildings 2729, 2731, 2733, 2735, 2805, 2809 &amp; 2813 (all single units, type F2-56), 2803 &amp; 2807 (single unit, type G3-56), 2801, 2811 &amp; 2815 (single unit, type H4-56), and 2901, 2903, and (2 units, type K2-56). The Cost Estimate is based on the 2015 HCP as of 10 Oct 2016.</p> <p><u>FOREIGN CURRENCY:</u> FCF Budget Rate Used: YEN 111.3365</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>	2. DATE
3. INSTALLATION AND LOCATION KADENA AIR BASE, JAPAN		
4. PROJECT TITLE IMPROVE FAMILY HOUSING (KAB NORTH TERRACE)	5. PROJECT NUMBER LXEZ184581	
12. SUPPLEMENTAL DATA: a. Estimated Design Data:  (1) Status: (a) Date Design Started 15 Jul 16 (b) Parametric Cost Estimate used to develop costs N (c) Percent Complete as of Jan 2017 35 (d) Date 35% Designed 31 Jan 17 (e) Date Design Complete 30 Sep 17 (f) Energy Study/Life-Cycle analysis was performed; (2) Basis: (a) Standard or Definitive Design - NO (b) Where design was most recently used - N/A (3) Total Cost ( c ) = ( a ) + ( b ) or ( d ) + ( e ): (\$000) (a) Production of Plans and Specifications 583 (b) All other Design Costs 292 (c) Total 875 (d) Contract 729 (e) In-house 146 (4) Construction Contract Award 15 Mar 18 (5) Construction Start 20 Jul 18 (6) Construction Completion 20 Jan 20  b. Equipment associated with this project will be provided from other appropriations: N/A		

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE # 1 JAPAN			4. PROJECT TITLE IMPROVE FAMILY HOUSING, KAB KADENA HEIGHT		
5. PROGRAM ELEMENT 88742	6. CATEGORY CODE 711-171	7. RPSUID/PROJECT NUMBER 2405/LXEZ184543	8. PROJECT COST (\$000) 5,397		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES					4,773
UNIT TYPE, JB4-90 (JNCO 4BR)		EA	12	389,952	( 4,679)
SUSTAINABILITY & ENERGY MEASURES		LS			( 94)
SUPPORTING FACILITIES					53
INFRASTRUCTURE		LS			( 8)
PAVEMENT		LS			( 45)
SUBTOTAL					4,826
CONTINGENCY (5.0%)					241
TOTAL CONTRACT COST					5,067
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					329
TOTAL REQUEST					5,397
AREA COST FACTOR		1.88			
10. Description of Proposed Work: Provide interior and exterior modernization, renovation and repair of twelve (12) housing units. The work shall consist of, but is not limited to, providing all labors, materials, transportation, and performing all work necessary for the improvements to the family housing. Upgrades interior and exterior service lateral utilities, communication infrastructure, landscaping, trash enclosure, road/parking surfaces, sidewalk, pavement marking and other support facilities to meet current standards. Work includes replacement of windows, exterior and interior doors including frames, and ceiling. Upgrade kitchen with the provision of secondary dining or pass-through counter, living room, dining room, family room, bathrooms, bedrooms, laundry, hallways, stairs, storage, closets, patio, mechanical room, roof covering including electrical, communication, plumbing, water distribution, waste collection system and replace ductwork for the air conditioning system. Include demolition, disposal, HAZMAT remediation, testing/abatement for asbestos/mold/lead based paint, and other work necessary to complete the project, and provide a ready and usable facility. The overall facility improvement shall be permanent and designed to meet the current Family Housing Standard and shall be in accordance with UFC 1-200-02 High Performance and Sustainable Building, UFC 3-600-01 Fire Protection Requirement and other latest applicable DoD Unified Facilities Criteria.					
11. Requirement: 6928 UN Adequate: 4612 UN Substandard: 3208 UN <u>PROJECT:</u> IMPROVE FAMILY HOUSING, KAB KADENA HEIGHTS (12 UN) <u>REQUIREMENT:</u> This project is required to provide modern and efficient housing for military members and their dependents stationed in Okinawa, Japan. The housing must be upgraded to meet current life safety codes and to provide a comfortable and appealing living environment. All units will meet whole house standards and are programmed in accordance with the Housing Community Profile. Renovated housing will provide a modern kitchen, living room, family bedroom and bath configuration. Dwelling units will be reconfigured per Housing Community Profile report. Interior					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE # 1 JAPAN			4. PROJECT TITLE IMPROVE FAMILY HOUSING, KAB KADENA HEIGHT	
5. PROGRAM ELEMENT  88742	6. CATEGORY CODE  711-171	7. RPSUID/PROJECT NUMBER  2405/	8. PROJECT COST (\$000)  5,397	
<p>and exterior utility and communication infrastructure, community and neighborhood improvements are required.</p> <p><u>CURRENT SITUATION:</u> This project upgrades and modernizes housing that was built by the Government of Japan in 1990s. These units require major renovation and repair to correct system deterioration, meet modern standards, and provide major home improvements. They have had no major home improvements or major upgrades since construction. Kitchen and bathroom cabinets and fixtures are obsolete and deteriorated. Counter tops are scratched. Plumbing and lighting fixtures are deteriorated and antiquated. The electrical system meets the standards however, wirings panels and receptacles are aging and will end its service life in a year. Floor covering is laid over the suspected asbestos containing mastic and some parts of the floor tiles are mismatched due to non-availability of similar materials for replacement. Exterior surfaces and roof require repair and windows, doors and frames require replacement. Utilities systems are deficient and old.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Units will continue to deteriorate rapidly, resulting in increasing operation, maintenance and repair to the government and inconvenience to residents. Without this project, repair of these units will continue in a costly, piecemeal fashion with little or no improvement in living quality.</p> <p><u>ADDITIONAL:</u> The project is for the Improvement of buildings 2442 &amp; 2443 (6 units, type JB4-90, JNCO) at Kadena Heights housing area. The cost estimate is based on the 2015 HCP as of 14 Oct 2016.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: YEN 111.3365</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>	2. DATE
3. INSTALLATION AND LOCATION KADENA AIR BASE, JAPAN		
4. PROJECT TITLE IMPROVE FAMILY HOUSING (KAB NORTH TERRACE)	5. PROJECT NUMBER LXEZ1845431	
12. SUPPLEMENTAL DATA: a. Estimated Design Data:  (1) Status: (a) Date Design Started 15 Jul 16 (b) Parametric Cost Estimate used to develop costs N (c) Percent Complete as of Jan 2017 35 (d) Date 35% Designed 31 Jan 17 (e) Date Design Complete 30 Sep 17 (f) Energy Study/Life-Cycle analysis was performed; (2) Basis: (a) Standard or Definitive Design - NO (b) Where design was most recently used - N/A (3) Total Cost ( c ) = ( a ) + ( b ) or ( d ) + ( e ): (\$000) (a) Production of Plans and Specifications 324 (b) All other Design Costs 162 (c) Total 486 (d) Contract 405 (e) In-house 81 (4) Construction Contract Award 15 Mar 18 (5) Construction Start 20 Jul 18 (6) Construction Completion 20 Jan 20  b. Equipment associated with this project will be provided from other appropriations: N/A		

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE # 1 JAPAN			4. PROJECT TITLE IMPROVE FAMILY HOUSING, KAB SEBILLE MANOR		
5. PROGRAM ELEMENT 88742	6. CATEGORY CODE 711-143	7. RPSUID/PROJECT NUMBER 2405/LXEZ184546	8. PROJECT COST (\$000) 65,503		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES					56,509
UNIT TYPE, CT3-64 (JNCO 3BR)		UN	26	600,840	( 15,622)
UNIT TYPE, DT4-64 (SNCO 4BR)		UN	30	527,535	( 15,826)
UNIT TYPE, DT4-64 W/ EXT STORAGE (SNCO 4BR)		UN	44	544,384	( 23,953)
SUSTAINABILITY & ENERGY MEASURES		LS			( 1,108)
SUPPORTING FACILITIES					2,067
INFRASTRUCTURE		LS			( 753)
PAVEMENT		LS			( 1,314)
SUBTOTAL					58,576
CONTINGENCY (5.0%)					2,929
TOTAL CONTRACT COST					61,505
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					3,998
TOTAL REQUEST					65,503
AREA COST FACTOR		1.88			
10. Description of Proposed Work: This project uses conventional design and construction methods that are compatible with applicable DoD & AF standards. Provides all management, tools, design, supplies, equipment, transportation, labor and services necessary to repair 100 dwelling units (26UN CT3-64 JNCO 3 BR and 74UN DT4-64 SNCO 4 BR). Work to include but is not limited to restoration and repair of Buildings shell and core (Landscape, pavement, exterior structure, roof structure, environmental and electrical systems); units' building systems and spaces (exterior structure, interior structure, mechanical systems, electrical system, plumbing system, fire, life and safety, structural improvements, porch, foyer, living room, dining room, kitchen, bedrooms, bathrooms, storage, laundry room, closets, hallways, stairways and space; neighborhood repairs include handicap access and markings on street system/sidewalk, landscaping, roadways, signage and exterior lighting. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. Includes environmental (asbestos/lead) sampling, testing, remediation and all other related work required to provide complete and usable facilities.					
11. Requirement: 6928 UN Adequate: 4612 UN Substandard: 3208 UN PROJECT: IMPROVE FAMILY HOUSING, KAB SEBILLE MANOR (100 UN) REQUIREMENT: This project is required to provide modern and efficient housing for military members and their dependents. Housing units must be repaired and restored to meet current life safety codes and to provide a comfortable and appealing living environment comparable to the off-base civilian community. All units are programmed in accordance with the 2015 Housing Community Profile. Work includes but is not limited to restoration, repair and or replacement of Electrical Systems (CATV Distribution, electrical distribution, lighting fixtures, receptacles,					

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE # 1 JAPAN			4. PROJECT TITLE IMPROVE FAMILY HOUSING, KAB SEBILLE MANOR	
5. PROGRAM ELEMENT  88742	6. CATEGORY CODE  711-143	7. RPSUID/PROJECT NUMBER  2405/LXEZ184546	8. PROJECT COST (\$000)  65,503	
<p>electrical panels, telecommunication distribution), Mechanical Systems (air handling unit, condenser, duct works and exhaust fans), Plumbing Systems (domestic water distribution, sanitary water collection, plumbing fixtures and water heater), Architectural (ceiling system, interior painting, exterior painting, doors, windows, floor, cabinets, countertops, sinks, kitchen equipment, bathroom accessories, tiles, shelves and handrails), Structural (repair of spalls and building extensions), Civil (landscape, sidewalk/walkway repair, ADA access, signage and utility connections).</p> <p><u>CURRENT SITUATION:</u> This project upgrades and modernizes housing units which were constructed in the early 1960s. These housing units require major renovation and repair to correct deterioration resulting from age and heavy use, most do not meet the needs of today's families, nor do they provide a modern home environment. Kitchens do not provide adequate storage, cabinet space or countertop area and are not functionally arranged. Plumbing and lighting fixtures are deteriorated. The electrical systems do not meet current codes. Ground fault circuit interrupter protection is not provided for bathrooms, kitchens, and exterior circuits. Flooring, windows, and roofing require replacement. The units have inadequate living space and storage.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Units will continue to deteriorate resulting in increasing operations, maintenance and repair costs to the AF. Without this project repair of these units will be accomplished in a costly and piecemeal fashion with little or no improvement in living quality. Low morale and retention problems will result if conditions are permitted to continue.</p> <p><u>ADDITIONAL:</u> Project covers; Sebille Manor, Kadena Air Base. Total number of units 100 UN: 26 UN CT3-64 JNCO 3BR and 74 UN DT4-64 SNCO 4BR; 50 Buildings (13 Bldgs CT3-64 and 37 Bldgs DT4-64). Site verification has found that forty-four units out of seventy-four DT4-64 type units lacked exterior storage; scope and cost are programmed into this project.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: YEN 111.3365</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	<b>FY 2018 MILITARY CONSTRUCTION PROJECT DATA</b>	2. DATE
3. INSTALLATION AND LOCATION KADENA AIR BASE, JAPAN		
4. PROJECT TITLE IMPROVE FAMILY HOUSING (KAB NORTH TERRACE)	5. PROJECT NUMBER LXEZ184546	
12. SUPPLEMENTAL DATA: a. Estimated Design Data:  (1) Status: (a) Date Design Started 15 Jul 16 (b) Parametric Cost Estimate used to develop costs N (c) Percent Complete as of Jan 2017 35 (d) Date 35% Designed 31 Jan 17 (e) Date Design Complete 30 Sep 17 (f) Energy Study/Life-Cycle analysis was performed; (2) Basis: (a) Standard or Definitive Design - NO (b) Where design was most recently used - N/A (3) Total Cost ( c ) = ( a ) + ( b ) or ( d ) + ( e ): (\$000) (a) Production of Plans and Specifications 3,930 (b) All other Design Costs 1,965 (c) Total 5,895 (d) Contract 4,912 (e) In-house 983 (4) Construction Contract Award 15 Mar 18 (5) Construction Start 20 Jul 18 (6) Construction Completion 20 Oct 20  b. Equipment associated with this project will be provided from other appropriations: N/A		

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

FY 2018 PLANNING AND DESIGN

Budget Request (\$000)

FY 2018 Budget Request \$ 4,445

FY 2017 Budget Request \$ 4,368

Purpose and Scope

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

Budget Request Summary

Authorization is requested for:

- (1) Planning and design for future year housing programs;
- (2) FY 2018 Authorization and Appropriation of \$4,445,000 to fund this effort as outlined in the following exhibit:

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		4. PROJECT TITLE FAMILY HOUSING PLANNING AND DESIGN		
5. PROGRAM ELEMENT 88742	6. CATEGORY CODE 711-000	7. PROJECT NUMBER	8. PROJECT COST (\$000) 4,445	
9. COST ESTIMATE				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
FAMILY HOUSING PLANNING AND DESIGN	LS			4,445
SUBTOTAL				4,445
TOTAL CONTRACT COST				4,445
TOTAL REQUEST				
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION: Architect-engineer services, survey, fees, etc., in connection with advance planning and design of family housing dwelling units and properties included in or proposed for the Air Force Family Housing Construction Account.</p> <p>11. <b>PROJECT:</b> This request is for an authorization and appropriation of \$4.445 million to provide planning and design costs in connection with family housing new construction or construction improvements programs.</p> <p><b>REQUIREMENT:</b> The funds requested are necessary to procure architect-engineer services to make site and utility investigations; one time multi-phase design, and housing community profiles (HCP) developments; and for the preparation of design and specifications of advance plans for future year family housing programs in connection with any family housing new construction or construction improvements programs.</p> <p><b>IMPACT IF NOT PROVIDED:</b> The funds requested are necessary to support the development of the housing community plans and to support the new construction and construction improvements programs. Without the requested funds, housing community profiles cannot be developed and the new construction and construction improvements programs cannot be designed and constructed.</p>				

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

OPERATIONS, UTILITIES AND MAINTENANCE

(Excludes Leasing and Privatization)

Budget Request (\$ in Thousands)

FY 2018 Budget Request \$279,937

FY 2017 Budget Request \$212,090

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

- \* Identify suitable, affordable housing for military members. Where shortages exist, identify alternative solutions, to include privatization, new construction or leased housing.
- \* Reduce utility consumption to increase energy efficiency and conservation.
- \* Provide government appliances and furniture as required.
- \* Invest wisely in maintenance and repairs to sustain the existing adequate housing inventory worldwide. The top priorities are life, safety, and health issues and divestiture of surplus housing.

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

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

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

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

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

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

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

c. Maintenance. Privatized housing units do not receive funding from this account. Provides the following:

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

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

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

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

Operation and Maintenance FY 2018 Budget Request Summary – Highlights

The requested amount in FY 2018 is \$279,937,000. This amount, together with estimated reimbursements of \$5,715,000 will fund the FY 2018 Operation and Maintenance program of \$285,652,000.

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

A summary of the budget request for FY 2018 is as follows (\$ in thousands):

<u>Operations Request</u>	<u>Utility Request</u>	<u>Maintenance Request</u>	<u>Total Direct Request</u>	<u>Reimbursement</u>	<u>Total Program</u>
\$98,244	\$47,504	\$134,189	\$279,937	\$5,715	\$285,652

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

<b>USAF FY2018 PB</b>		Fiscal Year:		<b>2018</b>		
<b>Family Housing Operation and Maintenance, Summary</b>		Command:		<b>USAF</b>		
<b>Excludes Leased Units and Costs</b>		Exhibit:		<b>FH-2</b>		
<b>Worldwide Summary</b>						
Fiscal Year:	2016	2017	2018			
Inventory Data (Units)						
Units in Being Beginning of Year	18,370	17,622	17,002			
Units in Being at End of Year	17,622	17,002	15,824			
Average Inventory for Year	17,996	17,312	16,413			
Historic Units	99	99	99			
Units Requiring FHO&M Funding:						
a. Contiguous US	109	109	111			
b. U. S. Overseas	0	0	0			
c. Foreign	18,261	17,513	16,891			
d. Worldwide	18,370	17,622	17,002			
Funding Requirements (\$000)	Total Cost (\$000)	Unit Cost (\$)	Total Cost (\$000)	Unit Cost (\$)	Total Cost (\$000)	Unit Cost (\$)
<b>OPERATIONS (DIRECT)</b>						
Management	30,314	1,684	42,919	2,479	53,464	3,257
Services	9,347	519	13,026	752	13,517	824
Furnishings	28,108	1,562	31,690	1,831	29,424	1,793
Miscellaneous	1,685	94	1,745	101	1,839	112
Sub-Total Direct Operations	69,454	3,859	89,380	5,163	98,244	5,986
Anticipated Reimbursements	157	9	457	26	457	28
<b>Gross Obligations, Operations</b>	<b>69,611</b>	<b>3,868</b>	<b>89,837</b>	<b>5,189</b>	<b>98,701</b>	<b>6,014</b>
<b>UTILITIES (DIRECT)</b>						
Direct Utilities	42,418	2,357	37,241	2,151	47,504	2,894
Anticipated Reimbursements	461	26	1,507	87	1,507	92
<b>Gross Obligations, Utilities</b>	<b>42,879</b>	<b>2,383</b>	<b>38,748</b>	<b>2,238</b>	<b>49,011</b>	<b>2,986</b>
<b>MAINTENANCE (DIRECT)</b>						
M&R Dwelling	100,082	5,561	62,952	3,636	100,362	6,115
M&R Ext. Utilities	14,091	783	9,352	540	14,041	855
M&R Other Real Property	16,430	913	11,959	691	18,102	1,103
Alter & Add.	1,951	108	1,206	0	1,684	0
Sub-Total Direct Maintenance	132,554	7,366	85,469	4,937	134,189	8,176
Anticipated Reimbursements	1,242	69	3,751	217	3,751	229
<b>Gross Obligations, Maintenance</b>	<b>133,796</b>	<b>7,435</b>	<b>89,220</b>	<b>5,154</b>	<b>137,940</b>	<b>8,404</b>
<b>GRAND TOTAL, FHO&amp;M - Direct</b>	<b>244,426</b>	<b>13,582</b>	<b>212,090</b>	<b>12,036</b>	<b>279,937</b>	<b>16,465</b>
<b>Anticipated Reimbursements</b>	<b>1,860</b>	<b>103</b>	<b>5,715</b>	<b>330</b>	<b>5,715</b>	<b>348</b>
<b>GRAND TOTAL, FHO&amp;M - TOA</b>	<b>246,286</b>	<b>13,686</b>	<b>217,805</b>	<b>12,581</b>	<b>285,652</b>	<b>17,404</b>

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

<b>USAF FY2018 PB</b>		Fiscal Year:		<b>2018</b>	
<b>Family Housing Operation and Maintenance, Summary</b>		Command:		<b>USAF</b>	
<b>Excludes Leased Units and Costs</b>		Exhibit:		<b>FH-2</b>	
<b>Contiguous US</b>					
Fiscal Year:	2016	2017	2018		
Inventory Data (Units)					
Units in Being Beginning of Year	109	109	111		
Units in Being at End of Year	109	111	111		
Average Inventory for Year	109	110	111		
Historic Units	99	99	99		
Funding Requirements (\$000)	(\$000)	Cost (\$)	(\$000)	Cost (\$)	(\$000)
<b>OPERATIONS (DIRECT)</b>					
Management	16,286	N/A	23,058	N/A	28,762
Services	173	N/A	240	N/A	244
Furnishings	545	N/A	594	N/A	552
Miscellaneous	380	N/A	400	N/A	478
Sub-Total Direct Operations	17,384	N/A	24,292	N/A	30,036
Anticipated Reimbursements	0	N/A	0	N/A	0
<b>Gross Obligations, Operations</b>	<b>17,384</b>	<b>N/A</b>	<b>24,292</b>	<b>N/A</b>	<b>30,036</b>
<b>UTILITIES (DIRECT)</b>					
Direct Utilities	241	N/A	193	N/A	243
Anticipated Reimbursements	0	N/A	0	N/A	0
<b>Gross Obligations, Utilities</b>	<b>241</b>	<b>N/A</b>	<b>193</b>	<b>N/A</b>	<b>243</b>
<b>MAINTENANCE (DIRECT)</b>					
M&R Dwelling	582	N/A	400	N/A	600
M&R Ext. Utilities	35	N/A	38	N/A	70
M&R Other Real Property	150	N/A	0	N/A	0
Alter & Add.	0	N/A	0	N/A	0
Sub-Total Direct Maintenance	767	N/A	438	N/A	670
Anticipated Reimbursements	0	N/A	0	N/A	0
<b>Gross Obligations, Maintenance</b>	<b>767</b>	<b>N/A</b>	<b>438</b>	<b>N/A</b>	<b>670</b>
<b>GRAND TOTAL, FHO&amp;M - Direct</b>	<b>18,392</b>	<b>N/A</b>	<b>24,923</b>	<b>N/A</b>	<b>30,949</b>
<b>Anticipated Reimbursements</b>	<b>0</b>	<b>N/A</b>	<b>0</b>	<b>N/A</b>	<b>0</b>
<b>GRAND TOTAL, FHO&amp;M - TOA</b>	<b>18,392</b>	<b>N/A</b>	<b>24,923</b>	<b>N/A</b>	<b>30,949</b>

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

<b>USAF FY2018 PB</b>				Fiscal Year: <b>2018</b>	
<b>Family Housing Operation and Maintenance, Summary</b>				Command: <b>USAF</b>	
<b>Excludes Leased Units and Costs</b>				Exhibit: <b>FH-2</b>	
<b>US Overseas</b>					
Fiscal Year:	2016	2017	2018		
Inventory Data (Units)					
Units in Being Beginning of Year	0	0	0		
Units in Being at End of Year	0	0	0		
Average Inventory for Year	0	0	0		
Historic Units	0	0	0		
	Total Cost	Unit	Total Cost	Unit	Total Cost
Funding Requirements (\$000)	(\$000)	Cost (\$)	(\$000)	Cost (\$)	(\$000)
<b>OPERATIONS (DIRECT)</b>					
Management	1,110	N/A	1,572	N/A	1,960
Services	0	N/A	0	N/A	0
Furnishings	614	N/A	693	N/A	744
Miscellaneous	0	N/A	0	N/A	0
Sub-Total Direct Operations	1,724	N/A	2,265	N/A	2,704
Anticipated Reimbursements	0	N/A	0	N/A	0
<b>Gross Obligations, Operations</b>	<b>1,724</b>	<b>N/A</b>	<b>2,265</b>	<b>N/A</b>	<b>2,704</b>
<b>UTILITIES (DIRECT)</b>					
Direct Utilities	0	N/A	0	N/A	0
Anticipated Reimbursements	0	N/A	0	N/A	0
<b>Gross Obligations, Utilities</b>	<b>0</b>	<b>N/A</b>	<b>0</b>	<b>N/A</b>	<b>0</b>
<b>MAINTENANCE (DIRECT)</b>					
M&R Dwelling	0	N/A	0	N/A	0
M&R Ext. Utilities	0	N/A	0	N/A	0
M&R Other Real Property	0	N/A	0	N/A	0
Alter & Add.	0	N/A	0	N/A	0
Sub-Total Direct Maintenance	0	N/A	0	N/A	0
Anticipated Reimbursements	0	N/A	0	N/A	0
<b>Gross Obligations, Maintenance</b>	<b>0</b>	<b>N/A</b>	<b>0</b>	<b>N/A</b>	<b>0</b>
<b>GRAND TOTAL, FHO&amp;M - Direct</b>	<b>1,724</b>	<b>N/A</b>	<b>2,265</b>	<b>N/A</b>	<b>2,704</b>
<b>Anticipated Reimbursements</b>	<b>0</b>	<b>N/A</b>	<b>0</b>	<b>N/A</b>	<b>0</b>
<b>GRAND TOTAL, FHO&amp;M - TOA</b>	<b>1,724</b>	<b>N/A</b>	<b>2,265</b>	<b>N/A</b>	<b>2,704</b>

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

<b>USAF FY2018 PB</b>		Fiscal Year:		<b>2018</b>	
<b>Family Housing Operation and Maintenance, Summary</b>		Command:		<b>USAF</b>	
<b>Excludes Leased Units and Costs</b>		Exhibit:		<b>FH-2</b>	
<b>Foreign</b>					
<b>Fiscal Year:</b>	2016	2017	2018		
Inventory Data (Units)					
Units in Being Beginning of Year	18,261	17,513	16,891	16,891	
Units in Being at End of Year	17,513	16,891	15,713	15,713	
Average Inventory for Year	17,887	17,202	16,302	16,302	
Historic Units	0	0	0	0	
	Total Cost	Unit	Total Cost	Unit	Total Cost
Funding Requirements (\$000)	(\$000)	Cost (\$)	(\$000)	Cost (\$)	(\$000)
<b>OPERATIONS (DIRECT)</b>					
Management	12,918	722	18,289	1,063	22,742
Services	9,174	513	12,786	743	13,273
Furnishings	26,949	1,507	30,403	1,767	28,128
Miscellaneous	1,305	73	1,345	78	1,361
Sub-Total Direct Operations	50,346	2,815	62,823	3,652	65,504
Anticipated Reimbursements	157	9	202	12	224
<b>Gross Obligations, Operations</b>	<b>50,503</b>	<b>2,823</b>	<b>63,025</b>	<b>3,664</b>	<b>65,728</b>
<b>UTILITIES (DIRECT)</b>					
Direct Utilities	42,177	2,358	37,048	2,154	47,261
Anticipated Reimbursements	461	26	406	24	511
<b>Gross Obligations, Utilities</b>	<b>42,638</b>	<b>2,384</b>	<b>37,454</b>	<b>2,177</b>	<b>47,772</b>
<b>MAINTENANCE (DIRECT)</b>					
M&R Dwelling	99,500	5,563	62,552	3,636	99,762
M&R Ext. Utilities	14,056	786	9,314	541	13,971
M&R Other Real Property	16,280	910	11,959	695	18,102
Alter & Add.	1,951	109	1,206	70	1,684
Sub-Total Direct Maintenance	131,787	7,368	85,031	4,943	133,519
Anticipated Reimbursements	1,242	204	773	6,250	971
<b>Gross Obligations, Maintenance</b>	<b>133,029</b>	<b>7,437</b>	<b>85,804</b>	<b>4,988</b>	<b>134,490</b>
<b>GRAND TOTAL, FHO&amp;M - Direct</b>	<b>224,310</b>	<b>12,540</b>	<b>184,902</b>	<b>10,749</b>	<b>246,284</b>
<b>Anticipated Reimbursements</b>	<b>1,860</b>	<b>104</b>	<b>5,715</b>	<b>332</b>	<b>5,715</b>
<b>GRAND TOTAL, FHO&amp;M - TOA</b>	<b>226,170</b>	<b>12,644</b>	<b>190,617</b>	<b>11,081</b>	<b>251,999</b>

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

<b>Summary of Historic Housing Detail</b>				
		<b>Fiscal Year:</b>		
		<b>2016</b>	<b>2017</b>	<b>2018</b>
<b>1. Historic Housing Costs, Non-GOQ Data</b>				
a. Number of Non-GOQ units on NHRP (Inventory)		79	79	79
b. Improvement Costs (\$000)		0	0	0
c. Maintenance and Repair Costs (\$000)		974	974	974
d. Total Historic Maintenance, Repair, Improvements (\$000)		974	974	974
e. Average Cost Per Unit (\$000)		12	12	12
<b>2. Historic Housing Costs, GOQ Data</b>				
a. Number of GOQ units on NHRP (Inventory)		20	20	21
b. Improvement Costs (\$000)		0	0	0
c. Maintenance and Repair Costs (\$000)		270	270	305
d. Total Historic Maintenance, Repair, Improvements (\$000)		270	270	305
e. Average Cost Per Unit (\$000)		14	14	15
<b>3. Total Historic Inventory &amp; Costs (Non-GOQ &amp; GOQ)</b>				
a. Number of Non-GOQ and GOQ units on NHRP (Inventory)		99	99	100
b. Improvement Costs (\$000)		0	0	0
c. Maintenance and Repair Costs (\$000)		1,244	1,244	1,279
d. Total Historic Maintenance, Repair, Improvements (\$000)		1,244	1,244	1,279
e. Average Cost Per Unit (\$000)		13	13	13

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

**Family Housing Operation and Maintenance Reprogramming Actions  
(\$ in Thousands)  
as of 30 Sep 2016**

	<b>FY 2016 Appropriation</b>	<b>Funds Reprogrammed</b>	<b>Percent Reprogrammed</b>	<b>FY 2016 End of Year</b>
<b>Utilities</b>	40,811	2,112	5.18%	42,923
<b>Operations</b>				
<b>Management</b>	52,153	-20,576	-39.45%	31,577
<b>Services</b>	12,940	-3,522	-27.22%	9,418
<b>Furnishings</b>	38,746	-10,062	-25.97%	28,684
<b>Miscellaeous</b>	2,032	-369	-18.16%	1,663
<b>Leasing</b>	28,867	-14,962	-51.83%	13,905
<b>Maintenance</b>	114,129	28,085	24.61%	142,214
<b>Debt</b>	0	0	0.00%	0
<b>Privatization</b>	41,554	19,294	46.43%	60,848
<b>Foreign Currency</b>	0	36,065	N/A	36,065
<b>Total</b>	<b>331,232</b>	<b>36,065</b>		<b>367,297</b>

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

EXHIBIT OP-5

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

		(\$ in Thousands)
1.	FY 2017 President's Budget Request:	\$42,919
2.	FY 2017 Appropriated Amount:	\$42,919
3.	FY 2017 Current Estimate:	\$42,919
4.	Price Growth:	\$678
	a. General Inflation (2.0%)	\$748
	b. Foreign Currency Adjustments	-\$238
	c. Civilian Pay Adjustments	\$168
5.	Program Increase: Civilian Pay realignment	\$9,867
6.	FY 2018 Budget Request:	\$53,464

Analysis of Changes in Management

The program increase realigns civilian pay to differentiate installation-level management responsibilities vice portfolio management.

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

EXHIBIT OP-5

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

		(\$ in Thousands)
1.	FY 2017 President's Budget	\$13,026
2.	FY 2017 Appropriated Amount:	\$13,026
3.	FY 2017 Current Estimate	\$13,026
4.	Price Growth:	\$491
	a. General Inflation (2.0%)	\$227
	b. Foreign Currency Adjustments	\$264
5.	FY 2018 Budget Request:	\$13,517

Analysis of Changes in Services

The program change for FY 2018 is due to the change in foreign currency rates.

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

EXHIBIT OP-5

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

Loaner furniture is provided to military families overseas so they may occupy permanent quarters prior to the arrival of their personally-owned furniture. "Loaner kits" consisting of beds, sofas, dining tables, etc., allows members to set up their household faster while reducing the cost of temporary quarters. In addition, there are some furnishings normally built into CONUS houses that are often limited or nonexistent in foreign private rentals, such as wardrobes (clothes closets), kitchen cabinets, sideboards and appliances. These items are provided to families as required.

The furnishings account funds essential furnishings at levels consistent with the needs of the Air Force. Much of the funding requested in the furnishings account results from an analysis of the most economical or cost effective way to fulfill service requirements. Issuing furnishings by the government avoids higher costs in other accounts such as military allowances and other support appropriations.

		(\$ in Thousands)
1.	FY 2017 President's Budget Request:	\$31,690
2.	FY 2017 Appropriated Amount:	\$31,690
3.	FY 2017 Current Estimate:	\$31,690
4.	Price Growth:	\$8,063
	a. General Inflation (2.0%)	\$683
	b. Foreign Currency Adjustments	\$7,271
	c. Civilian Pay Adjustments	\$109
5.	Program Decrease: Life cycle replacements	-\$10,329
6.	FY 2018 Budget Request:	\$29,424

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

Analysis of Changes in Furnishings

The requirement for FY 2018 was developed from historical expenditures allowing for adjustments in service contracts, and for a standard inflation rate of 2.0%. The stateside program is limited to providing furniture for general officers residing in privatized housing. A large requirement, however, still remains at our foreign locations as furnishings allows families to occupy permanent quarters faster and avoids higher costs in other accounts such as military allowances and other support appropriations. Funding decrease in the furnishings account results from reduced requirements for life cycle replacements of existing inventory.

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

EXHIBIT OP-5

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

	(\$ in Thousands)
1. FY 2017 President's Budget Request:	\$1,745
2. FY 2017 Appropriated Amount:	\$1,745
3. FY 2017 Current Estimate:	\$1,745
4. Price Growth:	\$94
a. General Inflation (2.0%)	\$36
b. Foreign Currency Adjustments	\$58
5. FY 2018 Budget Request:	\$1,839

Analysis of Changes in Miscellaneous

The program increase reflects changes in foreign currency rates.

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

EXHIBIT OP-5

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

		(\$ in Thousands)
1.	FY 2017 President's Budget Request:	\$37,241
2.	FY 2017 Appropriated Amount:	\$37,241
3.	FY 2017 Current Estimate:	\$37,241
4.	Price Growth:	\$10,263
	a. General Inflation (2.0%)	\$863
	b. Fuel pricing	\$227
	c. Foreign Currency Adjustments	\$9,173
5.	FY 2018 Budget Request:	\$47,504

Analysis of Changes in Utilities

The FY 2018 requirement was developed using historical expenditures allowing for increases in fuel, natural gas, and electricity costs reflected in a standard inflation rate of 2.0%. Most homes in the AF inventory are now located at overseas locations, where utility costs are generally higher than the U.S. average for the equivalent commodity. The price increase is driven by foreign currency rate changes.

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

<b>Family Housing Summary of Utility Detail FH-10 Exhibit</b>			
<b>Fiscal Year:</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
<b>TOTAL COST OF UTILITIES (\$000)</b>	42,418	37,241	47,504
<b>UTILITY QUANTITIES</b>			
<b>Electricity (KwH)</b>	233,989,049	225,095,488	213,406,437
<b>Heating</b>			
Gas (CF)	666,326,554	641,000,517	607,713,810
Fuel Oil			
Residuals (BBLs)			
Distillates (BBLs)	32,765	31,250	29,883
Purchased Steam (MBTU)	361,303	347,571	329,522
Heat Plants Coal Fired (MBTU)	0	0	0
Heat Plants Other Than Gas, Oil, Coal (MBTU)	0	0	0
Propane (BBLs)	15,628	15,034	14,253
<b>Water (Kgal)</b>	2,845,366	2,737,218	2,595,076
<b>Sewage (Kgal)</b>	2,570,961	2,473,242	2,344,808

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

EXHIBIT OP-5

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

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

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

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

		(\$ in Thousands)
1.	FY 2017 President's Budget Request:	\$85,469
2.	FY 2017 Appropriated Amount:	\$85,469
3.	FY 2017 Current Estimate:	\$85,469
4.	Price Growth:	\$25,361
	a. General Inflation (2.0%)	\$1,976
	b. Foreign Currency Adjustments	\$23,385
5.	Program Increase: Program Rebalance	\$23,359
6.	FY 2018 Budget Request:	\$134,189

Analysis of Changes in Maintenance:

As the Air Force meets its goals to eliminate inadequate housing, we will transition our focus from sustaining housing units to maintaining an adequate steady-state inventory. This funding

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

amount is necessary to prevent deterioration of current housing at those installations that have not undergone housing privatization. Maintaining an adequate level of funding for both routine recurring repair and major maintenance and repair will provide the necessary quality of life for military personnel and their families, and avoid additional financial outlays in the out years.

The requirement for the FY 2018 program was developed through the AF FHMP process from historical expenditures and scheduled demolition projects. These amounts were then adjusted for a standard inflation rate of 2.0%. This account supports requirements to maintain and repair assets to prevent deterioration of the adequate inventory.

Maintenance funding is also required to sustain and repair government-owned housing referral offices to include those that support the privatized housing at CONUS installations. Overseas adequate units not requiring conversion or suitability corrections will not be replaced nor improved. They will be retained within the inventory and sustained using Family Housing O&M funds. The program increase is driven by a rebalance of program funds to better align with actual obligations, in addition to foreign currency rate changes.

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FY 2018 BUDGET REQUEST  
Non-GOQ Units Exceed \$20,000 Threshold**

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

Location	Base	Number of Units	Year Built	High Unit Cost (\$000)	Unit (NSM)	Project (NSM)	Total Cost (\$000)	Significant O&M FY2013-2017 (\$000)
<b>OVERSEAS</b>								
UK	RAF Croughton	16	1988	50.3	120-151	2,249	870	0
Bring adequate units that were vacant for an extended 5 year period back on-line and ready for occupancy through remedial repairs to interior and exterior as well as replace deteriorated heating system to include boilers, pipework, radiators, and water storage system.								
UK	RAF Croughton	18	1962	25.3	137-217	2,459	499	0
Replace deteriorated heating system to include work to boilers, pipework, radiators, and water storage system.								
Japan	Kadena AB	204	1990	240	88-129	20,740	40,000	0
Repair 204 units in 3 MFH Towers (1086, 1087, and 1088) in Camp Kinser to include kitchen, bathrooms, install minisplit A/C, electric water heater, hard wired smoke alarms and fire sprinklers. Repair common areas (hallways and stairwells) to include replacement of ceilings, flooring, windows, doors, paint, light fixtures, hard wired smoke alarms, sprinklers, and cooling/dehumidifier system. Perform remediation testing and abatement of mold, asbestos and lead plus necessary electrical upgrades to meet code to provide safe and adequate housing. Upgrade pump house to provide required fire suppression protection.								

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Department of the Air Force  
 General and Flag Officers' Homes  
 Anticipated Operations and Maintenance Expenditures Exceeding \$35K per Unit for Fiscal Year 2018  
 (Dollars in Thousands)

State/Country	Installation	Quarters Address	Year Built	Size NSF	Operations Cost	Maintenance Cost	Total OMR > \$35K Cost	Utility Cost	Leasing Cost	Historic Preservation Cost	Total FH O&M Cost	Significant O&M FY2013-2017
		<b>OVERSEAS</b>										
<b>Germany</b>												
	Ramstein AB	1013 Cannon Court	1956	3,180	\$6.0	\$46.5	\$52.5	\$13.0	\$0.0	\$0.0	\$65.5	\$0.0
		Comment: Repair privacy fencing by replacing existing deteriorated wooden fence, including gates and doors, with a low maintenance vinyl/ plastic fence. Also, replace the rotting fascia/soffit (190 SF) over the sunroom.										
<b>TOTAL:</b>	<b>1 GOH Unit</b>				<b>\$6.0</b>	<b>\$46.5</b>	<b>\$52.5</b>	<b>\$13.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$65.5</b>	<b>\$0.0</b>

**DEPARTMENT OF THE AIR FORCE**  
**General and Flag Officers' Quarters**  
**6,000 Net Square Feet Units for Fiscal Year 2018**  
**(Dollars in Thousands)**

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

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

**United States Air Force  
Privatized General and Flag Officers' Quarters  
Operation, Maintenance and Repair Costs Incurred by Private Sector Developer/Partner/Owner  
Exceeding \$50K per Housing Unit  
for Fiscal Year 2016  
(Dollars in Thousands)**

State/Country	Installation	Quarters ID	Year Built	Size NSF	Operations Cost (Note 1)	Maintenance & Repair Cost (Note 2)	Total FH O&M Cost
Alaska	JBER (Note 3)	8433 Mitchell*	1942	3,986	24.7	62.5	87.2
Colorado	USAF Academy	6776 Carlton Drive*	1930	10,846	21.2	43.4	64.6
Louisiana	Barksdale AFB	201 Ira Eaker*	1933	3,566	5.8	105.0	110.8
Oklahoma	Tinker AFB	3005 Spaatz Court*	2012	4,061	3.1	62.2	65.3
<b>Total</b>					<b>54.8</b>	<b>273.1</b>	<b>327.9</b>

**Exhibit FH-12 Privatized GFOQ Private Sector Costs Exceeding \$50K**

Notes:

- (1) The Asterisk (\*) next to the Quarters ID indicates Utility Costs are included as part of Operation Costs.
- (2) Includes Capital Repair & Recovery, and Reinvestment Costs.
- (3) Joint Base Elmendorf-Richardson.
- (4) This annual report complies with the FY2009 National Defense Authorization Act (NDAA), amended Section 2805 requirement.

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

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

(\$ in Thousands)

1.	FY 2017 President's Budget Request:	\$5,715
2.	Congressional Adjustments:	None
3.	FY 2017 Appropriated Amount :	\$0
4.	Supplementals:	None
5.	Price Growth:	None
6.	Functional Program Transfers:	None
7.	Program Increases:	None
8.	Program Decreases:	None
9.	FY 2017 Current Estimate:	\$0
10.	Price Growth:	
	a. Inflation (2.0%)	\$114
11.	Functional Program Transfer:	None
12.	Program Increases:	None
13.	Program Decreases: Standardized based on historical data	-\$114
14.	FY 2018 Budget Request:	\$5,715

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

LEASING

Budget Request (\$ in Thousands)

FY 2018 Budget Request \$16,818

FY 2017 Budget Request \$20,530

Purpose and Scope

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

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

Program Summary - Highlights

Authorization is requested to fund leases and related expenses in FY 2018. The FY 2018 request for family housing leasing points is summarized as follows:

	<u>Lease Pts</u>	<u>FY 16</u>		<u>FY 17</u>		<u>FY 18</u>	
		<u>Used</u>	<u>Cost (\$000)</u>	<u>Used</u>	<u>Cost (\$000)</u>	<u>Used</u>	<u>Cost (\$000)</u>
Foreign	8,988	475	\$13,656	426	\$20,087	297	\$16,371
Section 801	0	0	\$0	0	\$0	0	\$0
Domestic	3,333	3	\$60	15	\$443	15	\$447
Total	12,321	478	\$13,716	441	\$20,530	312	\$16,818

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

Foreign Leasing

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

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

Section 801 Leasing

In FY 1984, Congress authorized the testing of a new leasing program for U.S. installations in P.L. 98-115, Section 801 (codified as 10 U.S.C. Section §2835). This program was designed to reduce family housing deficit at bases in the continental U.S. (CONUS) and U.S. Territories where AF families were seriously affected by housing shortages and high housing costs. The AF completed the last Section 801 lease at Joint Base Andrews - Summerfield Housing in April 2015.

Domestic Leasing (10 U.S.C. Section §2828)

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

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

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

EXHIBIT OP-5

Leasing

(\$ in Thousands)

1.	FY 2017 President's Budget Request:	\$20,530
2.	FY 2017 Appropriated Amount:	\$20,530
3.	FY 2017 Current Estimate:	\$20,530
4.	Price Growth:	\$2,608
	a. General Inflation (2.0%)	\$458
	b. Foreign Currency Adjustments	\$2,150
5.	Program Decreases:	-\$6,320
	a. Reduction in foreign leases	-\$3,452
	b. Divestiture of build-to-lease at RAF Lakenheath	-\$2,868
6.	FY 2018 Budget Request:	\$16,818

Analysis of Changes in Leasing:

The program decrease in FY 2018 is due to a reduction of projected foreign lease requirements and divestiture of Build-to-lease (BTL) at RAF Lakenheath.

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST  
FH-4 ANALYSIS OF LEASED UNITS  
(Other than Section 801)**

LOCATION	FY 16			FY 17			FY 18		
	# UNITS	LEASE MONTHS	COST (\$000)	# UNITS	LEASE MONTHS	COST (\$000)	# UNITS	LEASE MONTHS	COST (\$000)
<b>DOMESTIC LEASES</b>									
CONUS-wide (AF Recruiters, ROTC staffs, & other)	3	24	\$60	15	180	\$443	15	180	\$447
Unassigned	3,330	0	\$0	3,318	0	\$0	3,318	0	\$0
<b>TOTAL DOMESTIC LEASES</b>	<b>3,333</b>	<b>24</b>	<b>\$ 60</b>	<b>3,333</b>	<b>180</b>	<b>\$ 443</b>	<b>3,333</b>	<b>180</b>	<b>\$ 447</b>
<b>FOREIGN LEASES</b>									
<b>Department of State (\$2834):</b>									
Abu Dhabi, UAE	6	72	\$886	22	264	\$2,384	22	264	\$2,384
Amman, Jordan	4	48	\$178	7	84	\$490	7	84	\$490
Bangkok, Thailand	2	14	\$68	1	12	\$60	1	12	\$60
Bogotá, Colombia	1	12	\$88	1	12	\$50	1	12	\$50
Brasilia, Brazil	1	9	\$117	1	12	\$150	2	24	\$185
Bucharest, Romania	1	12	\$40	1	12	\$70	1	12	\$60
Cairo, Egypt	3	36	\$192	5	60	\$432	3	36	\$259
Chiang Mai, Thailand	4	48	\$84	4	48	\$240	4	48	\$160
Classified Location	2	24	\$146	3	36	\$240	3	36	\$240
Copenhagen, Denmark	3	26	\$238	2	24	\$180	2	24	\$180
Doha, Qatar	2	15	\$153	1	12	\$100	2	24	\$170
Manama, Bahrain	0	0	\$0	1	12	\$80	1	12	\$65
Mexico City, Mexico	8	216	\$403	18	216	\$1,440	18	216	\$1,080
Muscat, Oman	0	0	\$0	1	12	\$84	1	12	\$84
Nassau, Bahamas	0	0	\$0	2	24	\$180	2	24	\$140
Oslo, Norway	1	12	\$65	1	12	\$90	1	12	\$80
Paris, France	7	72	\$513	7	84	\$815	6	72	\$630
Rabat, Morocco	0	0	\$0	1	12	\$85	0	0	\$0
Sofia, Bulgaria	0	0	\$0	3	36	\$350	3	36	\$230
Tel Aviv, Israel	3	34	\$162	3	36	\$302	2	24	\$150
Vienna, Austria	0	0	\$0	0	0	\$0	0	0	\$0
Vilnius, Lithuania	0	0	\$0	3	36	\$350	3	36	\$230
<b>DoS Subtotal</b>	<b>48</b>	<b>650</b>	<b>\$ 3,333</b>	<b>88</b>	<b>1,056</b>	<b>\$ 8,172</b>	<b>85</b>	<b>1,020</b>	<b>\$ 6,927</b>
<b>AF Foreign Leases (\$2828):</b>									
Doha, Qatar	33	396	\$2,026	36	432	\$3,060	36	432	\$3,060
Aviano, Italy	13	180	\$466	25	300	\$1,040	25	300	\$1,040
Geilenkirchen, Germany	0	0	\$0	2	24	\$165	2	24	\$165
Istanbul, Turkey	0	0	\$0	2	24	\$103	0	0	\$0
Izmir, Turkey	1	9	\$15	2	24	\$90	0	0	\$0
RAF Lakenheath UK	379	4,548	\$7,732	270	2,640	\$7,347	148	900	\$4,479
Stavanger, Norway	1	12	\$84	1	12	\$110	1	12	\$100
<b>AF Foreign Leases Subtotal</b>	<b>427</b>	<b>5,145</b>	<b>\$ 10,323</b>	<b>338</b>	<b>3,456</b>	<b>\$ 11,915</b>	<b>212</b>	<b>1,668</b>	<b>\$ 8,844</b>
Unassigned	8,513	0	\$0	8,562	0	\$0	8,691	0	\$600
<b>TOTAL FOREIGN LEASES</b>	<b>8,988</b>	<b>5,795</b>	<b>\$ 13,656</b>	<b>8,988</b>	<b>4,512</b>	<b>\$ 20,087</b>	<b>8,988</b>	<b>2,688</b>	<b>\$ 16,371</b>
<b>GRAND TOTAL FH-4</b>	<b>12,321</b>	<b>5,819</b>	<b>\$ 13,716</b>	<b>12,321</b>	<b>\$ 4,692</b>	<b>\$ 20,530</b>	<b>12,321</b>	<b>\$ 2,868</b>	<b>\$ 16,818</b>

**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

**FH-4A ANALYSIS OF HIGH COST LEASED UNITS  
(Other than Section 801)**

LOCATION	FY18 TOTAL LEASES PER LOCATION	FY16			FY17			FY18		
		HIGH COST UNITS	HIGH COST DEFINED	EST COST (\$000)	HIGH COST UNITS	HIGH COST DEFINED	EST COST (\$000)	HIGH COST UNITS	HIGH COST DEFINED	EST COST (\$000)
<b>DOMESTIC LEASES</b>	0	0	\$29,646	\$0	0	\$29,646	\$0	0	\$	\$0
<b>Sub-Total Domestic High-cost</b>	0	0		\$0	0		\$0	0		\$0
<b>FOREIGN LEASES</b>										
Doha, Qatar	36	32	\$51,161	\$1,983	36	\$51,161	\$3,060	36	\$51,161	\$3,060
Aviano, Italy (Note 1)	1	0	\$51,161	\$0	1	\$51,161	\$80	1	\$51,161	\$80
Geilenkirchen, Germany (Note 1)	2	0	\$59,549	\$0	2	\$51,161	\$165	2	\$51,161	\$165
Istanbul, Turkey	0				2	\$51,161	\$103	0	\$0	\$0
Izmir, Turkey (Note 1)	0	0	\$51,161	\$0	1	\$51,161	\$70	0	\$0	\$0
Stavanger, Norway	1	1	\$51,161	\$95	1	\$51,161	\$110	1	\$51,161	\$100
<b>Sub-Total Foreign High-cost</b>	<b>40</b>	<b>33</b>		<b>\$2,078</b>	<b>43</b>		<b>\$3,588</b>	<b>40</b>		<b>\$3,405</b>
<b>GRAND TOTAL FH-4A</b>	<b>40</b>	<b>33</b>		<b>\$2,078</b>	<b>43</b>		<b>\$3,588</b>	<b>40</b>		<b>\$3,405</b>

Note:

1 - FY16 actual cost did not exceed high-cost lease threshold.

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

FAMILY HOUSING PRIVATIZATION

Budget Request (\$ in Thousands)  
FY 2018 Budget Request \$21,569  
FY 2017 Budget Request \$41,809

Purpose and Scope: The Department of the Air Force uses the Military Housing Privatization Initiative (MHPI) program to provide quality and affordable housing to military members and their families throughout the continental United States (U.S.) at locations where adequate housing in the local community is not readily available. The Air Force's program consists of an end state of 53,239 privatized homes at 63 installations within 32 privatization projects. This represents 99.8% of the total on-base family housing inventory in the U.S. The Air Force plans to complete the Initial Development Period for 100% of the projects by the end of FY22, extended from FY19 due to environmental remediation delays. To date, privatization has provided the Air Force with approximately 21,500 new homes and 12,300 renovated homes, in addition to the 16,500 homes conveyed as-is at project closings. The remaining homes are on schedule to be replaced or renovated by FY22. The Air Force is focused on sustaining the housing privatization program through a detailed portfolio and asset management process. The Air Force remains committed to providing members and their families access to safe and adequate housing facilities and services.

Program Summary: The FY2018 funding request provides \$21,569 for portfolio oversight and asset management. This program funds all costs related to family housing privatization, to include civilian pay for portfolio management personnel, travel, contracts for environmental assessments, financial consultant services, project construction oversight, and training. This funding ensures the Air Force maintains oversight and accountability and fulfills reporting requirements mandated in Title 10, United States Code, Section 2885. In addition, long-term project oversight is essential to ensuring the Air Force continues to receive quality housing from the privatized housing project owners.

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**DEPARTMENT OF THE AIR FORCE  
MILITARY FAMILY HOUSING  
FISCAL YEAR 2018 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

EXHIBIT OP-5

Housing Privatization

		(\$ in Thousands)
1.	FY 2017 President's Budget Request:	\$41,809
2.	FY 2017 Appropriated Amount:	\$41,809
3.	FY 2017 Current Estimate:	\$41,809
4.	Price Growth:	\$750
	a. General Inflation (2.0%)	\$730
	b. Civilian Pay Adjustment	\$20
5.	Program Decreases:	-\$20,990
	a. Civilian Pay realignment	-\$9,867
	b. Completion of IDPs	-\$11,123
6.	FY 2018 Budget Request:	\$21,569

Analysis of Changes in Privatization:

The program decrease in FY 2018 is attributed to completion of the initial development period at 26 of the 32 projects and the realignment of civilian pay to differentiate installation-level management responsibilities vice portfolio management.

**DEPARTMENT OF THE AIR FORCE**  
**Exhibit FH-6 Family Housing Privatization Comparison**  
**FISCAL YEAR 2018**

Privatization Date <sup>1</sup>	Project Name and/or Installation/State <sup>2</sup>	Actual/Current <sup>4</sup>						Authorities <sup>7</sup>
		Units Conveyed <sup>5</sup>	End State Units <sup>5</sup>	Funding Source <sup>6</sup>				
				Amount (\$M)	Budget Year(s)	Type	Project	
Aug-98	Lackland AFB, TX (Ph I)	272	420	6.161	96 97	Construction Construction	Lackland Lackland SIOH	1, 4
Sep-00	Robins AFB, GA (Ph I)	666	670	12.624	98 97	Construction Construction	Robins Replace MFH Ph 4 (60) Dyess Construct MFH Ph 1 (70)	1, 4
Sep-00	Dyess AFB, TX	0	402	16.269	99 98	Construction Construction	Dyess-Construct MFH Ph 2 (64) Dyess-Construct MFH Ph 1 (70)	1
Mar-01	Elmendorf AFB, AK (Ph I)	584	828	23.304	98	Improvement	Elmendorf-Improve MFH Ph 9 (82 units) HRSO to FIFH	1, 4
Aug-02	Wright-Patterson AFB, OH (Ph I)	1,733	1,536	10.820	02 99	Improvement Construction	Hickam-Privatize MFH Wright Patterson-Replace 40 Units	1, 4
Apr-03	Kirtland AFB, NM	1,783	1,078	24.013	02 02 99	Construction Construction Construction	Travis - Replace MFH Ph 1 Mountain Home-Replace MFH 56 Units Kirtland-Replace MFH Ph 5 (37)	1, 4
Aug-04	Buckley AFB, CO	0	351	17.893	04 02	Improvement Construction	Hickam - Improve 190 MFH Buckley-Privatize MFH	1, 4
Sep-04	Elmendorf AFB, AK (Ph II)	986	1,194	41.496	03 02	Improvement Improvement	Elmendorf-192 Ph 11 Improve Elmendorf-Privatize MFH	1, 3, 4
Feb-05	Hickam AFB, HI (Ph I)	1,356	1,356	4.185	02	Improvement	Hickam Privatize MFH	1, 4
Sep-05	Offutt AFB, NE	2,600	1,640	12.568	01	Improvement	Offutt Privatize MFH	1, 4
Sep-05	Hill AFB, UT	1,138	1,018	11.656	05 01	Improvement Improvement	Davis-Monthan, Repair MFH Ph 6 Hill, Privatize MFH	1, 4
Sep-05	Dover AFB, DE	1,488	980	12.278	05 04	Improvement Construction	Fairchild AFB - Privatize MFH Dover, Repl 112 MFH Ph 3	1, 4
Jan-06	Scott AFB, IL	1,430	1,593	0.000	N/A	N/A	N/A	1, 4
May-06	Nellis AFB, NV	1,278	1,178	1.827	05 02	Improvement Improvement	Holloman - Privatize MFH Nellis - Privatize MFH	1, 4
Sep-06	McGuire AFB/Ft. Dix, NJ	2,364	2,084	5.270	02	Improvement	McGuire Privatize MFH	1, 4
Feb-07	Altus AFB, OK	883	530	6.244	04	Improvement	Sheppard Privatize 1,288 MFH	1, 4
	Luke AFB, AZ	690	550					
	Sheppard AFB, TX	1,167	714					
	Tyndall AFB, FL	848	813					
	<b>AETC Group I Total:</b>	<b>3,588</b>	<b>2,607</b>					

**DEPARTMENT OF THE AIR FORCE**  
**Exhibit FH-6 Family Housing Privatization Comparison**  
**FISCAL YEAR 2018**

Privatization Date <sup>1</sup>	Project Name and/or Installation/State <sup>2</sup>	Actual/Current <sup>4</sup>						Authori- ties <sup>7</sup>
		Units Conveyed <sup>5</sup>	End State Units <sup>5</sup>	Funding Source <sup>6</sup>				
				Amount (\$M)	Budget Year(s)	Type	Project	
May-07	US Air Force Academy, CO	1,207	427	2.219	06	Improvement	AF Academy Privatize 445 Units	1, 4
Jul-07	Davis-Monthan AFB, AZ	1,256	961	27.922	05	Construction	Davis-Monthan AFB - Replace FH Ph 6	1, 4
	Holloman AFB, NM	929	923		05	Construction	MacDill Replace FH Ph 6	
	<b>ACC Group II Total:</b>	<b>2,185</b>	<b>1,884</b>		05	Improvement	Holloman, Privatize Family Housing	
Aug-07	Hickam AFB, HI (Ph II)	1,303	1,118	0.000	N/A	N/A	N/A	4
Sep-07	Los Angeles AFB, CA	617	613	19.945	06	Improvement	Fort MacArthur - Improve 188 Units	2, 4
	Peterson AFB, CO	493	669		06	Improvement	Peterson, Privatize 1,132 Units	
	Schriever AFB, CO	0	242					
	<b>Tri-Group Total:</b>	<b>1,110</b>	<b>1,524</b>					
Sep-07	Barksdale AFB, LA	723	1,090	15.231	06	Improvement	Bolling, Improve 24 Units	1, 4
	Joint Base Anacostia-Bolling (Bolling), MD	1,343	672		05	Improvement	Barksdale, Imp MFH PH 1	
	Joint Base Langley-Eustis (Langley), VA	1,496	1,430		05	Improvement	Langley, Improve Electrical System	
					03	Construction	Eglin, 234 MFH Ph 2A	
	<b>BLB Total:</b>	<b>3,562</b>	<b>3,192</b>		03	Improvement	Eglin - Hurlburt 213 MFH Improvement	
Oct-07	Robins AFB, GA (Ph II)	558	207	10.600	05	Improvement	FY 05 Robins, Improve Family Housing	2, 4
Oct-07	Columbus AFB, MS	517	453	59.000	06	Improvement	Andrews-Improve 178 Units	2, 4
	Goodfellow AFB, TX	98	241		05	Improvement	Randolph, Construct MFH Ph 1	
	Laughlin AFB, TX	534	451		05	Construction	Davis-Monthan, Repair MFH Ph 6	
	Maxwell AFB, AL	723	501		03	Construction	Hurlburt, 134 MFH Ph 2A	
	JBSA-Randolph, TX	397	317		03	Improvement	Eglin - Hurlburt 213 MFH Improvement	
	Vance AFB, OK	230	242					
	<b>AETC Group II Total:</b>	<b>2,499</b>	<b>2,205</b>					
Nov-07	Vandenberg AFB, CA	1,336	867	0.000	N/A	N/A	N/A	1, 4
Nov-07	Andrews AFB, MD	1,466	933	0.000	N/A	N/A	N/A	2, 4
	MacDill AFB, FL	752	572					
	<b>AMC East Total:</b>	<b>2,218</b>	<b>1,505</b>					
Jul-08	Fairchild AFB, WA	1,055	641	28.190	04	Construction	Tinker, Privatize 730 MFH	1, 4
	Tinker AFB, OK	694	660		04	Improvement	Sheppard, Privatize 1,288 Units	
	Travis AFB, CA	1,094	1,134				FHIF Funds	
		<b>AMC West Total:</b>	<b>2,843</b>		<b>2,435</b>			

**DEPARTMENT OF THE AIR FORCE**  
**Exhibit FH-6 Family Housing Privatization Comparison**  
**FISCAL YEAR 2018**

Privatization Date <sup>1</sup>	Project Name and/or Installation/State <sup>2</sup>	Actual/Current <sup>4</sup>						Authorities <sup>7</sup>
		Units Conveyed <sup>5</sup>	End State Units <sup>5</sup>	Funding Source <sup>6</sup>				
				Amount (\$M)	Budget Year(s)	Type	Project	
Nov-08	Hanscom AFB, MA	726	731	15.723	02	Improvement	Hickam - Privatize MFH	1, 4
	Little Rock AFB, AR	1,295	991		01	Improvement	Moody MFH Privatization	
	Moody AFB, GA	303	287		01	Construction	Travis - Replace 64 Units	
	Patrick AFB, FL	991	616		00	Improvement	Little Rock - Privatize MFH	
	<b>Falcon Group Total:</b>	<b>3,315</b>	<b>2,625</b>					
Dec-08	Lackland AFB, TX (Ph II)	264	465	21.618	05	Improvement	Robins - Improve Family Housing	1, 4
					03	Improvement	Keesler - Replace 117 Ph 1	
					03	Improvement	Eglin - Hurlburt 213 MFH Improve	
Jun-11	JB Elmendorf-Richardson	1,242	1,240	36.798	11	Improvement	Army Funds Transferred	1, 4
Sep-11	Arnold AFB, TN	40	22	23.354	07	Construction	Mountain Home - Replace 457 MFH	1, 4
	Charleston AFB, SC	478	345					
	Keesler AFB, MS	1,188	1,188					
	Shaw AFB, SC	679	630					
	<b>Southern Group Total:</b>	<b>2,385</b>	<b>2,185</b>					
Mar-12	Beale AFB, CA	683	509	20.053	07	Construction	Mountain Home - Replace 457 MFH	1, 4
	F.E. Warren AFB, WY	831	749		05	FHIF	Beale	
	Malmstrom AFB, MT	1,168	1,116		04	FHIF	Beale	
	Whiteman AFB, MO	920	890		03	FHIF	Beale	
	<b>Western Group Total:</b>	<b>3,602</b>	<b>3,264</b>					
Aug-13	Cannon AFB, NM	763	1,038	37.576	09	Improvement	Kadena - Improve 614 MFH (Ph 9) Misawa - Improve 370 MFH (Ph 4)	1, 4
	Cavalier AFB, ND	14	14					
	Ellsworth AFB, SD	283	497					
	Grand Forks AFB, ND	833	547					
	Minot AFB, ND	1,746	1,606					
	Mountain Home AFB, ID	956	844					
	<b>Northern Group Total:</b>	<b>4,595</b>	<b>4,546</b>					
Sep-13	Edwards AFB, CA	741	741	80.181	09	Improvement	Mountain Home - Replace 457 MFH Kadena - Improve 614 MFH (Ph 9) Yokota - Improve 350 MFH (Ph 7) Misawa - Improve 370 MFH (Ph 4)	1, 4
	Eglin AFB, FL	894	747					
	Eielson AFB, AK	934	898					
	Hurlburt AFB, FL	380	404					
	McConnell AFB, KS	401	364					
	Seymour Johnson, NC	686	686					
	<b>Continental Group Total:</b>	<b>4,036</b>	<b>3,840</b>					

**DEPARTMENT OF THE AIR FORCE**  
**Exhibit FH-6 Family Housing Privatization Comparison**  
**FISCAL YEAR 2018**

Privatization Date <sup>1</sup>	Project Name and/or Installation/State <sup>2</sup>	Actual/Current <sup>4</sup>						Authori-ties <sup>7</sup>
		Units Conveyed <sup>5</sup>	End State Units <sup>5</sup>	Funding Source <sup>6</sup>				
				Amount (\$M)	Budget Year(s)	Type	Project	
Sep-13	Dyess AFB, TX (PH II) Moody	674	674	6.315	09	Improvement	Yokota - Improve 350 MFH (Ph 7) Misawa - Improve 370 MFH (Ph 4)	1,4
	AFB, GA (PH II)	0	101					
	<b>ACC Group III Total:</b>	<b>674</b>	<b>775</b>					
2019 (E)	Wright-Patterson AFB, OH (PH II)	100	30	20.800	03	FHIF	Wright-Patterson	3,4
					16	Improvement	Kadena - Improve Infrastructure (Ph 4)	
<b>Grand Totals</b>		<b>60,300</b>	<b>53,269</b>	<b>632.133</b>				

**NOTES:**

- 1 - The date real property is transferred (land and housing units) to private ownership/developer, and when service members become entitled to receive a basic allowance for housing.
- 2 - For grouped projects, the last line is the grouped project name with lines above for each installation and state in the grouped project.
- 3 - The latest scope and funding amount approved by OSD and OMB in a scoring package, which should be consistent with the latest Transfer of Funds into the FHIF Notifications to Congress.
- 4 - The actual/current scope and funding, as of 30 Sep 2016, corresponding to the end state that the owner is obligated to provide, subsequent to OSD/OMB approval, based on changes due to local market conditions and operational transformations. These definitions are consistent with those in the annual MHPI Program Evaluation Report (PER).
- 5 - Show the total conveyed and end state units for a grouped project, and for each installation within a grouped project.
- 6 - Provides funding sources.
- 7 - MILITARY HOUSING PRIVATIZATION INITIATIVE (MHPI) AUTHORITIES:  
1 - 10 U.S.C. § 2873, "Direct Loans and Loan Guarantees"  
2 - 10 U.S.C. § 2875, "Investments"  
3 - 10 U.S.C. § 2877, "Differential Lease Payments"  
4 - 10 U.S.C. § 2878, "Conveyance or Lease of Existing Property and Facilities"

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**FOREIGN CURRENCY EXCHANGE DATA**  
**FY 2018 Budget Request**  
(\$ in Thousands)

MFH O&M		FY 2016		FY 2017		FY 2018	
		Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion
Country	Local Currency						
Denmark	Krone	6.7523		6.7076		6.9385	
European Comm	Euro	0.9049	\$ 43,006	0.8990	\$ 50,147	0.9329	\$ 42,602
Japan	Yen	121.8300	\$ 105,933	122.4519	\$ 104,915	111.3365	\$ 118,249
Norway	Krone	8.3430	\$ -	8.1758	\$ -	8.4115	\$ -
Singapore	Dollar	1.3979	\$ -	1.3858	\$ -	1.4132	\$ -
South Korea	Won	1163.0138	\$ 7,123	1151.5242	\$ 5,990	1156.12	\$ 7,201
Turkey	Lira	2.8759	\$ 3,331	2.8346	\$ 7,702	3.4789	\$ 2,755
United Kingdom	Pound	0.6505	\$ 30,373	0.6473	\$ 34,230	0.8072	\$ 24,720
Total			\$ 189,766		\$ 202,984		\$ 194,987

MFH Construction		FY 2016		FY 2017		FY 2018	
		Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion
Country	Local Currency						
Denmark	Krone	6.7523	\$ -	6.7076	\$ -	6.9385	\$ -
European Comm	Euro	0.9049	\$ 5,700	0.8990	\$ 498	0.9329	\$ -
Japan	Yen	121.8300	\$ 144,949	122.4519	\$ 56,486	111.3365	\$ 80,617
Norway	Krone	8.3430	\$ -	8.1758	\$ -	8.4115	\$ -
Singapore	Dollar	1.3979	\$ -	1.3858	\$ -	1.4132	\$ -
South Korea	Won	1163.0138	\$ -	1151.5242	\$ -	1156.12	\$ -
Turkey	Lira	2.8759	\$ -	2.8346	\$ -	3.4789	\$ -
United Kingdom	Pound	0.6505	\$ -	0.6473	\$ -	0.8072	\$ -
Total			\$ 150,649		\$ 56,984		\$ 80,617

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