

Department of the Air Force

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 AND MILITARY FAMILY HOUSING FISCAL YEAR 2018 PROGRAM SUMMARY

Auth	Authorization Appropriation			
	Request Reque			
	(\$000s)	(\$000s)		
	<u> </u>	<u></u>		
Military Construction				
Major Construction	1,585,244	1,609,544		
Unspecified Minor Construction (10 USC 2805)	-	31,400		
Planning and Design (10 USC 2807)	-	97,852		
Total Military Construction	1,585,244	1,738,796		
Military Family Housing				
New Construction	-	-		
Improvements	80,617	80,617		
Planning and Design	4,445	4,445		
Subtotal	85,062	85,062		
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		
Subtotal	318,324	318,324		
Total Military Family Housing	403,386	403,386		
Grand Total Air Force	1,988,630	2,142,182		

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

			AUTHORIZATION	APPROPRIATION
STATE	INSTALLATION	PROJECT	REQUEST	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 A SOS Expansion	13 000	13 000
	Port Carson	Fort Carson TOTAL	13,000	13,000
	US Air Force	Ain Fond CubonWony	20,000	20,000
	And Force	All Force Cyber work	30,000	30,000
	Academy	USAFA IUIAL:	30,000	30,000
		COLORADO IOTAL:	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
	incominen.	McConnell TOTAL ·	17,500	17,500
		KANSAS TOTAL:	17,500	17,500
			17 500	15 500
MAKYLAND	JB Andrews	PAK 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
	1 (child)	Virtual Warfare Cetner Onerations Facility	38,000	38,000
		Nollie TOTAL	61,000	61,000
		NEWADA TOTAL.	61,000	61,000
		NEVADA IOTAL:	01,000	01,000
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
MORTH DAROTA		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

		AUTHORIZATION	APPROPRIATION
INSTALLATION	PROJECT	REQUEST	REQUEST
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:	138,130	138,130
JBSA - Fort Sam	Camp Bullis Dining Facility	18,500	18,500
Houston	JBSA - Fort Sam Houston TOTAL:	18,500	18,500
	TEXAS TOTAL:	156,630	156,630
Hill	UTTR Consolidated Mission Control Center	28,000	28,000
	Hill TOTAL:	28,000	28,000
	UTAH TOTAL:	28,000	28,000
FE Warren	Consolidated Helo/TRF Ops/AMU and Alert Fac	62,000	62,000
	FE Warren TOTAL:	62,000	62,000
	WYOMING TOTAL:	62,000	62,000
Unancoified	VC 464 Main Organiting Base 4	260.000	260.000
Unspecified	KC-40A Main Operating Dase 4	269,000	209,000
	UNSPECIFIED TOTAL:	269,000	269,000
	INSIDE THE US TOTAL:	1,258,280	1,269,680
	INSTALLATION JBSA - Lackland JBSA - Fort Sam Houston Hill FE Warren Unspecified	INSTALLATION JBSA - LacklandPROJECT Air Traffic Control Tower BMT Recruit Dormitory 7 BMT Classrooms/Dining Facility 4JBSA - Lackland TOTAL:JBSA - Fort Sam HoustonCamp Bullis Dining Facility JBSA - Fort Sam Houston TOTAL: TEXAS TOTAL:JBSA - Fort Sam Houston TOTAL: TEXAS TOTAL:HillUTTR Consolidated Mission Control Center Hill TOTAL: UTAH TOTAL:FE WarrenConsolidated Helo/TRF Ops/AMU and Alert Fac FE Warren TOTAL: WYOMING TOTAL:UnspecifiedKC-46A Main Operating Base 4 UNSPECIFIED TOTAL: UNSPECIFIED TOTAL:	INSTALLATION PROJECT REQUEST JBSA - Lackland Air Traffic Control Tower 10,000 BMT Recruit Dormitory 7 90,130 BMT Classrooms/Dining Facility 4 38,000 JBSA - Fort Sam Camp Bullis Dining Facility 105A - Lackland TOTAL: 138,130 JBSA - Fort Sam Camp Bullis Dining Facility 118,500 Houston JBSA - Fort Sam Houston TOTAL: 18,500 Hill UTTR Consolidated Mission Control Center 18,500 Hill UTTR Consolidated Mission Control Center 28,000 Hill Consolidated Helo/TRF Ops/AMU and Alert Fac 62,000 FE Warren Consolidated Helo/TRF Ops/AMU and Alert Fac 62,000 Vurspecified KC-46A Main Operating Base 4 269,000 UNSPECIFIED TOTAL: 269,000 INSIDE THE US TOTAL: 1,258,280

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

			AUTHORIZATION	APPROPRIATION
COUNTRY	INSTALLATION	PROJECT	REQUEST	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
	COMMONW	EALTH 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
OATAR	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
			1 250 200	1 2/0 /00
		INSIDE THE US TOTAL:	1,256,280	1,209,080
		OUISIDE THE US TOTAL: WORLDWIDE UNSPECIFIED TOTAL	520,904	339,804
		WOKLDWIDE UNSPECIFIED TOTAL: EV 2019 TOTAL	1 585 244	149,252
		F 1 2018 IUTAL:	1,305,244	1,/38,/90

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

DEFINITIONS OF NEW AND CURRENT MISSION

<u>NEW MISSION PROJECTS</u> – 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.

<u>CURRENT MISSION PROJECTS</u> – 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.

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

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

			APPROPRIATION	
STATE/COUNTRY	INSTALLATION	PROJECT	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
		Current Mission TOTAL	436,577	
			,	
			APPROPRIATION	
STATE/COUNTRY	INSTALLATION	PROJECT	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
AUSTRAILIA	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 HO	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	Unspecifed	KC-46A Main Operating Base 4	269 000	NM
WYOMING	FE Warren	Consolidated Helo/TRF Ons/AMI and Alert Fac	62,000	NM
		New Micsion TOTAL	1 172 967	1 4141
		New Phission TOTAL	1,1/2,707	
WORLDWIDE UNSPECIFIED	Various Locations	Planning and Design	97,852	P&D
WORLDWIDE UNSPECIFIED	Various Locations	Unspecified Minor Military Construction	31,400	UMMC
		Central Program TOTAL	129,252	
		0 -	,	
		Active AF Program TOTAL	1,738,796	

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

INSTALLATION	COMMAND	STATE/COUNTRY	PAGE
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 –	AETC	TEXAS	127
LACKLAND			
JB SAN ANTONIO – FORT	AETC	TEXAS	138
SAM HOUSTON			
MACDILL	AMC	FLORIDA	74
MCCONNELL	AMC	KANSAS	82
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
TINIAN	PACAF	COMMONWEALTH	159
		OF NORTHERN	
		MARIANA ISLANDS	
US AIR FORCE ACADEMY	AF	COLORADO	63

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. <u>STATEMENTS ON NATO ELIGIBILITY</u>

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. <u>NEW AND CURRENT MISSION ACTIVITIES</u>

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. <u>REAL PROPERTY ADMINISTRATION</u>

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 Appropriation for the Commonwealth of Northern Mariana Islands Asia-Pacific Resiliency Land Acquisition was included in the Continuing Appropriations Act, 2017 and Zika Response and Military Construction, Veterans Affairs, Asia-Pacific Resiliency Land Acquisition was included in the Continuing Appropriations and Military Constructions 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		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE	
AIR FORCE	(computer generated)							
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE					·			
HANSCOM AIR FORCE BASE VANDENBERG GATE COMPLEX			COMPLEX					
HANSCOM AFB SIT	HANSCOM AFB SITE # 1							
MASSACHUSETTS						0 550 750		
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27576		730-832	2487/	MXRD0	83000		11,400	
		9. C	OST ESTIMA	TES				
		TUEN		TT / M	OUDDETEN	UNIT	COST	
		11EM		07M	QUANTITY		(\$000)	
PRIMARY FACILIT:	IES						2,297	
VISITOR CENTER	(730-	832)		SM	187	5,209	(974)	
GATEHOUSE / ID	CHECK	(730-839)		SM	52	4,315	(224)	
COMMERCIAL VEH	INPSE	CTION 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 E	NERGY MEASURES		LS			(45)	
SUPPORTING FACID	LITIES						7,623	
UTILITIES				LS			(1,600)	
SITE IMPROVEME	NTS			LS			(1,040)	
PAVEMENTS				LS			(3,150)	
COMMUNICATIONS				LS			(560)	
DEMOLITION				SM	29	784	(23)	
PASSIVE SECURI	TY MEA	SURES		LS			(750)	
EMERGENCY GENE	RATOR	/ TRANSFER SWITCH		LS			(500)	
SUBTOTAL							9,919	
CONTINGENCY	(5.0%)					496	
TOTAL CONTRACT COST						10,415		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				594	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				397	
TOTAL REQUEST							11,406	
TOTAL REQUEST (1	ROUNDE	D)					11,400	
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(83)			
					at a made			

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.

Air Conditioning: 3 Tons

DD	FORM	1391,	DEC	99

Previous editions are obsolete.

AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE VANDENBERG GATE COMPLEX HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER PROJECT COST (\$000) 27576 730-832 2487/MXRD083000 11,400 11. Requirement: 521 SM Adequate: 40 SM Substandard: 29 SM PROJECT: 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. CURRENT SITUATION: 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 onbase 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. IMPACT IF NOT PROVIDED: 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. This project meets applicable criteria/scope specified in Air Force ADDITIONAL: 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.

FY 2018 MILITARY CONSTRUCTION PROJECT DATA

DD FORM 1391, DEC 99

1. COMPONENT

Previous editions are obsolete.

Page No.

2. DATE

1. COMPONENT		FY 2018 MILIT	ГА	2. DATE		
AIR FORCE		(c				
3. INSTALLATION	:					
HANSCOM AIR FORCE BASE VANDENBERG GATE COMPLEX						
HANSCOM AFB SITE # 1						
MASSACHUSETTS						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	7. RPSUID/PROJECT NUMBER 8. PROJECT		
27576	27576 730-832 2487/MXRD083000 1					

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 MILIT (c	ARY CONSTRU	CTION PROJECT erated)	DATA	2. DATE
3. INSTALLATIO	N AND LOCATION		4. PROJECT TT	TI.E	
			WWDEWDEDG GA		
HANSCOM AIR FU	RCE BASE		VANDENBERG GA	TE COMPLEX	
MASSACHUSETTS	нь т т 			1	
5. PROGRAM ELE	EMENT 6. CATEGORY	CODE 7. PR	OJECT NUMBER	8. PROJECT CC	ST (\$000)
27576	730-832	2487	/MXRD083000	11,	400
12. SUPPLEMENT	FAL DATA:				
a. Estimated	l Design Data:				
(1) Projec	t to be accomplished	by design-b	uild procedur	es	
(2) Basis: (a) Sta	andard or Definitive	Design -			NO
(b) Whe	ere Design Was Most R	ecently Use	i -		
(3) All Ot	her Design Costs	_			456
(4) Constr	uction Contract Award	1			18 AUG
(5) Constr	uction Start				18 SEP
(6) Constr	uction Completion				20 MAR
(7) Energy	Study/Life-Cycle ana	alysis was/w	ill be perfor	med	YES
EQUIPMENT	NOMENCLATURE	PROCURING	FISC APPRC APPRC OR RE	AL YEAR DPRIATED EQUESTED	COST (\$000)
FURNITURE	, FIXTURES AND EQUIP	3400	2	2018	20
CLOSED CA	PTION TV EQUIPMENT	3400	2	2018	33
COMMUNICA	IIONS EQUIPMENT	3400	2	2018	30

1. COMPONENT	1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE							
AIR FORCE (computer generated)								
3. INSTALLATION,	, SITI	E AND LOCATION		4. PI	ROJECT TITLI	3		
TINIAN			APR -	- LAND ACQUI	ISITION			
NORTHERN MARIAN	A ISL	ANDS						
5. PROGRAM ELEM	INT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT	COST (\$000)	
27576		911-146	/PA	F16030)0B	12	2,900	
		9.	COST ESTIM	ATES				
						UNIT	COST	
		ITEM		U/M	QUANTITY		(\$000)	
PRIMARY FACILITI	ES						19,616	
LAND ACQUISITIC	N			HA	142	138,140	(19,616)	
SUPPORTING FACIL	ITIES	1					0	
SUBTOTAL							19,616	
CONTINGENCY	(5	5.0%)					981	
TOTAL CONTRACT C	OST					-	20,597	
SUPERVISION, INS	PECTI	ON AND OVERHEAD	(6.2%)				1,277	
TOTAL REQUEST						-	21,874	
TOTAL REQUEST (R	OUNDE	:D)					21,900	
10. Descriptio	on of	Proposed Constru	uction: Ac	quire	s not more	than 142 h	ectares of	
land (in fee or	r lon	ng-term lease) for	r the const	ructi	on of Air	Force milit	ary	
training facil:	ities	and infrastruct	ure in supp -	ort o	f air oper	ations for	divert,	
exercises, and	natu weal	th of Northern M	ponse. Lan ariana Isla	d par nds (Ceis are r CNMT) thro	equired to	be acquired	
Port Authority	. Lan	nd acquisition is	to be acco	mplis	hed in acc	ordance wit	h DoD	
Instruction 416	55.71	, Real Property A	Acquisition					
11. Requirement	: 14	2 HA Adequate	: 0 HA S	ubsta	ndard: 0 H	IA		
PROJECT: Asia	Paci	fic Resiliency (APR) - Land	Acqu	isition (N	New Mission)		
REQUIREMENT: 1	The A	ir Force will aco	quire land	eithe	r in fee c	or by long-t	erm lease	
for the constru	uctic	on of Air Force m:	ilitary tra	ining	facilitie	s and infra	structure	
in the CNMI. Th	ne Ai	r Force intends 1	to acquire a	an in	terest in	this land f	or a	
minimum of 25 y	years	. The Air Force :	is prepared	to 1	ease the p	property at	a cost that	
comports to the	e pol	icy stated in the	e 1976 Cove	nant	between th	e governmen	t of CNMI	
and the United	Stat	es and will acqu	ire only the	e min	imum real	property in	terest	
necessary to me	et t	the mission require	rement. The	Air	Force is w	villing to p	urchase	
CURRENT STATUT	e II	The Air Forge	in goordina	ting	uith the C		ont had	
decided to loca	ate t	the Divert and Exe	ercise Miss	ion a	t Tinian,	CNMI GOVEIIIII CNMI. Acqu	isition of	
non-Federal la	nd in	fee or by long-	term lease	is re	quired to	construct t	he	
operational and	l sup	port infrastruct	ure necessa:	ry to	execute t	he Divert a	nd Exercise	
Mission. Exist	ing	federally-leased	land in CN	MI do	es not inc	lude parcel	s required	
IOT THIS MISSIC			aumin	-a f		lad 1		
of the project	rKUVI s the	עשע: Witnout sed	curing righ	ts IO ercia	r the need e Mission	within CNMT	ceis, none can be	
constructed. In	nitia	al Air Operations	capability	cann	ot be achi	.eved until	these	
facilities are	acilities are constructed, depriving the Air Force of this much-needed operational							
capability.								

	1					1			
1. COMPONENT	FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE	(computer generated)								
3. INSTALLATION	, SIT	E AND LOCATION		4. PROJECT TITL	E	1			
TINIAN				APR - LAND ACQUISITION					
NORTHERN MARIAN	A ISL	ANDS							
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$00									
27576		911-146	/PA	F160300B	12,	900			
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); how	vever,	, the cost per act	re of the l	and located at	Tinian is high	gher than			
Dur original e	stima	ite at an "unspec:	iiled" loca	tion. Therefor	re, the FY 20.	18			
- Division B	langer	includes:	the FY 2017	National Defe	nse Authorizat	tion Act			
(NDAA) to refl	ect 1	finian as the loca	ation and a	project cost	\$21.9M.				
- A request fo	r an	FY 2018 appropria	ation (\$12.	9M) to fully f	und this proje	ect.			
			Author	ized of		_			
FY (\$M)		Authorization	Approp	riation	Appropriat:	ion			
2017 Enacted		\$9.0	Ş9	.0	\$9.0				
2018 Request		* ¢21 Q	\$12 \$21	•	\$12.9 ¢21 9				
IOCAL		421.9	721 721	• 9	φ21 . 9				
* FY 2018 Divi	sion	B requests full o	cost of \$21	.9M at Tinian.					
guidance. The value determin 3810. 142 hect	Navy ation ares	y prepared a Cost n prior to negotia = 350 acres.	Estimate t ations with	o more fully in CNMI. Base C	nform the fai: ivil Engineer	r market : 808-449-			
HISTORY OF BAS	E BOU	JNDARY: NOT appl:							
LONG TERM REAL construction.	L EST	ATE: Long-term Lo	ease is req	uired to suppo	rt planned ne	w			
JOINT USE CERT available" bas requirements.	IFICA	ATION: This facil: nowever, the scope	ity can be e of the pr	used by other o oject is based	components on on Air Force	an "as			

1. COMPONENT		FY 2018 MILITARY C	ONSTRUC	TION PROJECT	DATA	2. DATE		
AIR FORCE		(compute	er gene	rated)				
3. INSTALLATI	ON AND I	LOCATION		4. PROJECT :	TITLE			
TINIAN				APR - LAND	ACQUISITION			
NORTHERN MARI	ANA ISLA	ANDS			I			
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CO	OST (\$000)		
27576		911-146	/P#	F160300B	12,9	900		
12. SUPPLEMENTAL DATA:								
a. Estimate	d Design	n Data:						
(1) Statu	IS:							
(a) Da	te Desig	gn Started			01	-FEB-18		
(b) Pa	rametri	c Cost Estimates use	ed to de	evelop costs				
(C) Pe	ercent Co	omplete as of 01 JAN	1 2017					
(d) Da	te 35% 1	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) St	andard o	or Definitive Design	1 –			NO		
(b) Wh	ere Des	ign Was Most Recentl	y Used	-				
(3) Total	. Cost (d	c) = (a) + (b) or (d	l) + (e)):		(\$000)		
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		0		
(b) Al	l Other	Design Costs				0		
(c) To	otal					0		
(d) Co	ntract					0		
(e) Ir	1-house					0		
(4) Const	ruction	Contract Award				18 FEB		
(5) Const	ruction	Start				18 FEB		
(6) Const	ruction	Completion				18 FEB		
b. Equipmer N/A	b. Equipment associated with this project provided from other appropriations: N/A							

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: <u>Provided</u> 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.

1. COMPO	NENT		FY 2018 MILITARY CONSTRUCTION PROGRAM 2. DATE (YYYMMDD)								
2 INISTALI	AIR FORCE										
EIELSON A	AIR FORCE BASE				4. COM					5. AREA COST	INDEX
ALASKA					PACIFI	C AIR FO	DRCES				2.34
6. PERSON	NNEL	(1)	PERMAN ENLISTED	ENT CIVILIAN	(2) OFFICER	STUDEN ENLISTED	ITS CIVILIAN	(3)	SUPPOR ENLISTED	TED CIVILIAN	TOTAL
a. AS OF	30-Sep-16	167	1700	382	4	21	0	167	654	137	3,232
b. END FY 2022 265			2759	435	4	21	0	167	654	137	4,442
7. INVENT	ORY DATA (\$000)										
a. TOTA	AL ACREAGE	24,429									
b. INVE	NTORY TOTAL AS OF	30-Sep	-16								4,733,306
	ORIZATION REQUESTED IN			(FY 201	8)						168,900
e. PLAN	NED IN NEXT FOUR PROGR		RS (FY 2	2019-202	2)						0
f. REM	AINING DEFICIENCY										133,650
g. GRA	ND TOTAL		/FV 2010))							5,571,756
8. PROJEC	TS REQUESTED IN THIS PR		TEGOR	6) 7					b C	OST	C DESIGN STATUS
(1) CODE	(2) PR	OJECT T	ITLE			(3) SCOP	E	(\$0	00)	(1) START (2) COMPLETE
218-712	F-35A AGE Facility / H	fillsta	nd			2	2,494 S	M	21,	000	Design/Build
141-453	F-35A OSS/Weapons/Inte	el Faci	lity			1	128 S	М	11,	800	Design/Build
610-144	F-35A Consolidated Mur	11tions	Admin I	racilit	У	1,951 SM 27,			27,	000 500	Design/Build
214-426	F-35A R-11 Fuel Truck	Shelte:	10113 E	LOTITCA			539 SM		9,	600	Design/Build
890-181	F-35A Extend Utiliduct	to Soi	ith Loop	Ç			3,235 L	М	48,	000	05/16 09/17
722-351	F-35A Satellite Dining	g Facil:	ity	_	-		975 SM		8,	000	Design/Build
821-117	Repair Central Heat/Po	ower Pla	ant Boi.	ler PH	4	12	20,000	TOTAL	41,	000	Design/Build
		DDOCD		C (EV20	10 EV2	0221		IUIAL	100	, 300	
					FU	JTURE PF	ROJECT	S TOTAL	1	0	
R&M UNFU	INDED REQUIREMENT (\$M)							TOTAL	26	5.7	
10. MISSIC	ON OR MAJOR FUNCTIONS										
across th operation units, to	The globe while taking c as group with an F-16 S b include Alaska's Air	n Fight are of quadron Nationa	our pec , and m l Guard	pple, the second	mission neir fan ance, mi Refuel:	milies, milies, ission s ing Wing	and ou and ou support g and t	r infra and me he futu	r, Main structu dical g re F-35	roups, a mission	is host to an as well as 10 tenant n.
11. 00151	ANDING POLLUTION AND 3		PEFICIEN		¥ 2018-20	022)					
a. Air P	Pollution										
b. Wate	er Pollution										
c. Occu	upational Safety and Health										
d. Othe	er Environmental										
				0,11	STAND			ς τοται		n	
L				001		NO DEFIC		STUTAL		0	

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE
AIR FORCE		(c	computer gen	erate	d)		
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE					ROJECT TITLE R CENTRAL H	E IEAT/POWER PL	ANT BOILER PH
EIELSON SITE # ALASKA	1			4			
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)
27576		821-117	1703/	FTQW1	43001		41,000
		9. C	COST ESTIMA	TES			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILIT	PRIMARY FACILITIES						31,082
STRUCTURAL REN	OVATIO	NS (821-117)		SM	400	1,197	(479)
BOILER CONSTRU	CTION			LB	120,000	242	(29,040)
FLUE CONSTRUCT	ION			LS			(23)
CONTROLS				LS			(190)
START-UP COMMIS	SSIONI	NG & RELATED		LS			(457)
ELECTRICAL				LS			(283)
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(609)
SUPPORTING FACI	LITIES						4,173
SITE IMPROVEME	NTS			LS			(166)
MODIFICATIONS (OF EXI	STING FACILITIES		LS			(169)
DEMOLITION OF	INTERI	OR TANK		LS			(620)
ENVIRONMENTAL	REMEDI	ATION		LS			(3,218)
SUBTOTAL							35,255
CONTINGENCY	(5.0%)					1,763
TOTAL CONTRACT COST							37,017
SUPERVISION, INS	SUPERVISION, INSPECTION AND OVERHEAD (6.5%)						2,406
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)							1,410
TOTAL REQUEST	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

Previous editions are obsolete.

1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE EIELSON AIR FORCE BASE REPAIR CENTRAL HEAT/POWER PLANT BOILER PH EIELSON SITE # 1 4 ALASKA 5. PROGRAM ELEMENT 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) 6. CATEGORY CODE 27576 821-117 1703/FTQW143001 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 PROJECT: Repair Central Heat and Power Plant Boiler PH 4 (Current Mission) REQUIREMENT: 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. CURRENT SITUATION: 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. IMPACT IF NOT PROVIDED: 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. ADDITIONAL: 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 50year 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.JOINT USE CERTIFICATION: 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.

1. COMPONENT		FY 2018 MILITARY C	ONSTR	UCTION PROJECT	DATA	2. DATE
AIR FORCE		(comput)	er ge			
3. INSTALLATI	ON AND I	OCATION		4. PROJECT TI	TLE	
EIELSON AIR F	ORCE BAS	E		REPAIR CENTRA	L HEAT/POWER	PLANT BOILER
EIELSON SITE	# 1			PH 4		
ALASKA			1		1	
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT C	OST (\$000)
27576		821-117	170	3/FTQW143001	41	,000
12. SUPPLEMEN	TAL DAT	A:				
a. Estimate	d Design	n Data:				
(1) Projec	t to be	accomplished by de	sign-	build procedur	es	
(2) Basis	•					
(a) St	andard o	or Definitive Design	ı –			NO
(b) Wh	ere Des	ign Was Most Recent	ly Use	ed -		
(3) All O	ther Des	ign Costs				1,640
(4) Const	ruction	Contract Award				18 AUG
(5) Const	ruction	Start				18 SEP
(6) Const	ruction	Completion				20 DEC
(7) Energ	y Study/	Life-Cycle analysis	was/	will be perfor	med	YES
N/A						

1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE						
AIR FORCE		(c	omputer gen	erate	d)			
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	:		
EIELSON AIR FOR	CE BAS	E		F-35A	OSS/WEAPON	S/INTEL FACIL	ITY	
EIELSON SITE # 3	1							
ALASKA								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT (COST (\$000)	
27142		141-453	1703/	FTQW1	.80102	1	1,800	
		9. C	OST ESTIMA	TES				
						UNIT	COST	
		ITEM		U/M	QUANTITY		(\$000)	
PRIMARY FACILITI	ES						7,484	
OSS/WEAPONS/INT	FEL			SM	1,128	6,503	(7,335)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(149)	
SUPPORTING FACII	LITIES						2,656	
SITE IMPROVEMEN	NTS			LS			(56)	
UTILITIES				LS			(986)	
EMERGENCY BACKU	JP GEN	ERATOR		LS			(130)	
COMMUNICATIONS				LS			(217)	
PAVEMENTS				LS			(1,042)	
ENVIRONMENTAL F	REMEDI	ATION		LS			(150)	
ARCHEOLOGICAL N	MONITO	RING		LS			(75)	
SUBTOTAL						-	10,140	
CONTINGENCY	(5.0%))					507	
TOTAL CONTRACT C	COST						10,647	
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)							692	
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	SUBTOTAL)				406	
TOTAL REQUEST						-	11,745	
TOTAL REQUEST (F	ROUNDE	D)					11,800	
EQUIPMENT FROM C	THER	APPROPRIATIONS (NON-	ADD)				(655)	
10 Degenieti		Dropogod Construit	-tion. Co			a onemetien	a dummanak	

10. Description of Proposed Construction: Construct an F-35A Operations Support Squadron (OSS)/Weapons & 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.

Air Conditioning: 33 Tons

11. Requirement: 1797 SM Adequate: 669 SM Substandard: 0 SM
PROJECT: F-35A OSS/Weapons/Intel Facility (New Mission)
REQUIREMENT: This project is required to provide facility space for OSS, Weapons &

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Previous editions are obsolete.

Page No.

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	JCTION PROJECT DAT	"A	2. DATE		
AIR FORCE		(computer generated)						
3. INSTALLATION	, SITE	AND LOCATION	4. PROJECT TITLE					
EIELSON AIR FOR	CE BAS	E		F-35A OSS/WEAPON	S/INTEL FACILI	TY		
EIELSON SITE #	1							
ALASKA								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	CATEGORY CODE 7. RPSUID/PROJECT NU			8. PROJECT COST (\$000)		
27142		141-453	1703	/FTQW180102 11,800				
Tactics, and 1	ntell	igence supporting	the F-35	mission which i	s scheduled	to arrive		
middle of FY20). Th	e building must in	nclude an	administrative	work area fo	r 55 F-35A		
personnel, sto	orage,	conference and th	raining sp	aces, a break r	oom, restroo	ms with		
showers, arcti	.c ent	ries, and rooms fo	or utiliti	es. A Secure Co	mpartmented			
Information Fa	cilit	y (SCIF) must be a	added to m	eet ICD/ICS 705	as required	. A		
Special Access	Prog	ram Facility (SAPI	F) space w	vill be construc	ted and inte	rior walls		
configured to	suppo	ort the security re	equirement	s of the intell	igence missi	ons. The		
SAPF areas wil	l be	constructed to mee	et Joint A	ir Force, Army,	Navy Manual	(JAFANM)		
6/9, "Physical	. Secu	rity Standards."						

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.

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. This project meets the criteria in AFMAN 32-1084, "Facility ADDITIONAL: 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.

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		FY 2018 MIL	ITARY CO	ONSTRUCTI	ON PROJECT	DATA	2	. DATE
AIR FORCE			(Compute	er genera	ted)			
3. INSTALLATIO EIELSON AIR FO EIELSON SITE ALASKA	ON AND L ORCE BAS # 1	OCATION E		4. F-3	PROJECT TI 85A OSS/WEA	TLE PONS/INTEL FA	CIL	ITY
5. PROGRAM EL	EMENT	6. CATEGOR	Y CODE	7. PROJE	CT NUMBER	8. PROJECT CO	OST	(\$000)
27142		141-4	53	1703/F	rQW180102	11,	,80	0
12. SUPPLEMEN	TAL DATA	A:						
a. Estimate	d Design	Data:						
(1) Projec	t to be	accomplishe	d by de	sign-buil	ld procedur	es		
(2) Basis: (a) St (b) Wh	: andard o ere Desi	or Definitive ign Was Most	e Desigr Recentl	n - Ly Used -				NO
(3) All Ot	cher Des	ign Costs						468
(4) Constr	ruction	Contract Awa	rd				18	FEB
(5) Constr	ruction	Start					18	MAR
(6) Constr	ruction	Completion					20	DEC
(7) Energy	/ Study/	Life-Cycle a	nalysis	was/will	L be perfor	med		YES
EQUIPMENT	NOMENCI	LATURE	PI APPI	ROCURING ROPRIATIC	FISC APPRO ON OR RE	AL YEAR DPRIATED EQUESTED		COST (\$000)
FURNISHIN	IGS			3400	2	2019		275
COMMUNICA	TIONS			3080	:	2019		138
UNINTERRU	PTABLE 1	POWER SUPPLY		3080	:	2018		242

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DA	ГА	2. DATE	
AIR FORCE	DRCE (computer generated)							
3. INSTALLATION	, SITE	E AND LOCATION		4. PI	ROJECT TITLE			
EIELSON AIR FOR	CE BAS	SE		F-35A	AGE FACILI	TY / FILLSTA	ND	
EIELSON SITE #	1							
ALASKA		I	1			1		
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27142		218-712	1703	/FTQW1	.80103		21,000	
		9. 0	COST ESTIM	TES	,			
		ТТЕМ		п./м	OUANTTTY	UNIT	COST	
					201201212		(\$000)	
PRIMARY FACILIT	IES						14,370	
AIRCRAFT SUPPO	RT EQU	IPMENT FACILITY (218	3-712)	SM	2,328	5,756	(13,400)	
VEHICLE FUELIN	G SYST	EM (123-335)		SM	166	4,112	(683)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(287)	
SUPPORTING FACE	LITIES						4,106	
SITE IMPROVEME	NTS			LS			(2,429)	
UTILITIES				LS			(623)	
COMMUNICATIONS				LS			(145)	
PAVEMENTS				LS		ĺ	(684)	
ENVIRONMENTAL	REMEDI	ATION		LS		ĺ	(150)	
ARCHEOLOGICAL	MONITO	RING		LS			(75)	
SUBTOTAL							18,476	
CONTINGENCY	(5.0%)					924	
TOTAL CONTRACT	COST						19,399	
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(6.5%)				1,261	
DESIGN/BUILD - 3	DESIGN	COST (4.0% OF S	SUBTOTAL)				739	
TOTAL REQUEST							21,399	
TOTAL REQUEST (ROUNDE	D)					21,000	
EQUIPMENT FROM	OTHER	APPROPRIATIONS (NON-	ADD)				(188)	
10. Descripti (AGE) Facility	lon of with	Proposed Construe	ction: Co and cover	nstru ed st	orage and	space Grou for F-35 a	nd Equipment	
with cast-in-	lace	reinforced footing	g and foun	datic	on walls, s	plit-face (CMU walls,	
and a standing	g seam	n metal roof, util:	izing conv	entic	nal design	and constr	ruction	
methods to acc	commod	late the mission of	f the faci	lity.	The facil	ity should	be	
compatible wit	h app	plicable DoD, Air 1	Force, and	base	e design st	andards.	Project will	
improvements.	and a	ssion systems, an ssociated support	facilitie	s, pa s to	provide a	complete a	nd useable	
facility. In	addit	ion, local materia	als and co	nstru	ction tech	niques shal	ll be used	
to be cost eff	ectiv	ve. The facility m	ust also b	e abl	e to withs.	stand wind	loads and	
seismic effect	seismic effects as prescribed in applicable codes and design guides. Facilities							
will be design	will be designed as permanent construction in accordance with the DoD Unified							
High Performer	teria	(UFC) 1-200-01, (d Sustainable Bui	Jeneral Bu	iremo	ng Kequirem Ants This	ents and U	T = 200 - 02	
with DoD antit	error	ism/force protect:	ion requir	ement	s per UFC	4-010-01.	rr combry	

Air Conditioning: 6 Tons

11. Requirement: 6977 SM Adequate: 4483 SM Substandard: 0 SM <u>PROJECT:</u> F-35 AGE Facility / Fillstand (New Mission) <u>REQUIREMENT:</u> An adequately sized and configured AGE facility is required to

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1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	UCTION PROJECT DAT	ГА	2. DATE
AIR FORCE		(0	omputer gen			
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE	/	
EIELSON AIR FOR	CE BAS	E		F-35A AGE FACILI	TY / FILLSTAND)
ALASKA	T					
					0 5507505 0	
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	JST (\$000)
27142		218-712	1703,	/FTQW180103	21	,000
support the F-	35A b	eddown which is so	cheduled t	o arrive middle	of FY20. T	he new
facility must	inclu	de a high bay serv	vice and m	aintenance shop	, heated cov	ered
storage, and s	uppor	ting administrativ	ve and bui	lding support s	pace to acco	mmodate
the service an	d mai	ntenance requireme	ents of th	e F-35A. The ma	intenance sh	op must
include space	for s	hop workers, an in	nspection	bay, open servi	ce and inspe	ction
area, wash rac	k, an	d maintenance supp	port room.	A fuel fillsta	nd with over	head
canopy is requ	ired	to accommodate the	e added eq	uipment needing	fuel brough	t by the
F-35 mission.						
CURRENT SITUAT	ION:	The existing AGE	facilitie	s lack adequate	space to su	pport the
requirements o	f the	new F-35A mission	n. The ex	isting AGE faci	lities are a	t capacity
and lack suffi	cient	maintenance and s	storage sp	ace to support	additional A	GE. The
number of auth	orize	d pieces of AGE is	s increasi	ng irom 592 pie	ces to 942 p	leces.
and store ogui	rease	in equipment requ	lires addi	tional space to	conduct mai	ntenance
TNDAGE TE NOE		DED. Without this	- 6	these is not a		
any and stored		de for the support	s lacilly	there is not s	d to support	the E-35A
beddown Fiels	on AF	B would not be abl		ain F-35A opera	tions direc	the r-JJA
impacting PACO	M and	PACAF mission ob	iectives a	nd possibly the	stability a	nd security
of the Asia-Pa	cific	region.				na becarrey
ADDITIONAL: T	his r	roject meets the o	criteria i	n AFMAN 32-1084	Facility	
Requirements,	dated	20 April 2012. Th	ne reason	for the cost of	supporting	facilities
is more than 2	5% of	the cost of prima	ary facili	ties due to the	over-excava	tion
requirement to	addr	ess permafrost is	sues with	the top soil be	ing removed	and
replaced with	non-f	rost susceptible r	material.	All known alte	rnative opti	ons were
considered dur	ing t	he development of	this proj	ect. An analysi	s of reasona	ble
options for ac	compl	ishing this project	ct was com	pleted, indicat	ing a new fa	cility to
be the best so	lutic	on. An economic and	alysis wil	l be performed	to verify th	e initial
assessment res	ult.	354th Fighter Wir	ng Base Ci	vil Engineer: (907) 377-521	3. New AGE
Facility / Fil	lstan	d: Aircraft Suppor	rt Equipme	nt Facility (21	8-712): 2,32	8 SM =
25,058 SF, Veh	icle	Fueling System (12	23-335): 1	66 SM = 1,787 S	F.	
			_			
JOINT USE CERT	IFICA	TION: This facilit	ty can be	used by other c	omponents on	an "as
available" bas	15; h	owever, the scope	or the pr	oject is based	on Air Force	
requirements.						

Page No.

1. COMPONENT AIR FORCE		FY 2018 MILITARY C	ONSTRU	JCTION	PROJECT 1)	DATA	2	. DATE
3. INSTALLATI	ON AND L	OCATION		4. PR	OJECT TI	TLE	•	
EIELSON AIR F EIELSON SITE ALASKA	ORCE BAS # 1	Έ		F-35A	AGE FAC	ILITY / FILLS'	ran:	D
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PF	OJECT	NUMBER	8. PROJECT CO	OST	(\$000)
27142		218-712	170	3/FTQW	180103	21,	,00	0
12. SUPPLEMEN	TAL DAT	A:						
a. Estimate	d Desigr	Data:						
(1) Proje	ct to be	accomplished by de	sign-	build ;	procedur	es		
(2) Basis (a) St (b) Wh	: andard o ere Des:	or Definitive Desig ign Was Most Recent	n - ly Use	ed -				NO
(3) All O	ther Des	ign Costs						856
(4) Const	ruction	Contract Award					18	FEB
(5) Const	ruction	Start					18	MAR
(6) Const	ruction	Completion					20	JUN
(7) Energ	y Study/	Life-Cycle analysis	s was/	will b	e perfor	med		YES
EQUIPMENI	NOMENCI	PRO	CURING	APPRC	FISCA APPRO OR RE	AL YEAR PPRIATED :QUESTED		COST (\$000)
FURNISHIN	IGS		3400	0	2	2019		125
COMMUNIC	TIONS		3400)	2	2019		63

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	JCTION	PROJECT DA	TA	2. DATE	
AIR FORCE	ORCE (computer generated)							
3. INSTALLATION	, SITE	AND LOCATION		4. PH	ROJECT TITLE	3		
EIELSON AIR FOR	CE BAS	E		F-354	A R-11 FUEL	TRUCK SHELTE	R	
EIELSON SITE #	1							
ALASKA		Ι	1			1		
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27142		214-426	1703	/FTQW1	80105		9,600	
		9. 0	OST ESTIMA	ATES	,			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILIT	IES						3,795	
R-11 FUEL TRUC	K SHEL	TER		SM	539	6,903	(3,721)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(74)	
SUPPORTING FACIN	LITIES						4,509	
SITE IMPROVEME	NTS			LS			(1,444)	
UTILITIES				LS		İ	(2,367)	
COMMUNICATIONS				LS			(120)	
PAVEMENTS				LS			(353)	
ENVIRONMENTAL	REMEDI	ATION		LS			(150)	
ARCHEOLOGICAL	MONITO	RING		LS			(75)	
SUBTOTAL							8,304	
CONTINGENCY	(5.0%))					415	
TOTAL CONTRACT (COST						8,719	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				567	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF 5	SUBTOTAL)				332	
TOTAL REQUEST							9,618	
TOTAL REQUEST (1	ROUNDE	D)					9,600	
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				15	
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. Air Conditioning: 2 Tons								
11. Requiremen	it: 25	36 SM Adequates	: 1997 SM	Su	lbstandard:	: SM		
PROJECT: F-35 REQUIREMENT: the flying sch	A R-1 This Medule	1 Fuel Truck Shelt project will const of two F-35 squad	ter. (New truct a ne drons duri	Missi w R-1 ng we	.on) .1 fuel tru eather cond	ick shelter litions that	to support negatively	

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1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE						
AIR FORCE		(computer generated)						
3. INSTALLATION	LATION, SITE AND LOCATION 4. PROJECT TITLE							
EIELSON AIR FORCE BASE F-35A R-11 FUEL TRUCK SHELTER								
EIELSON SITE # 1	EIELSON SITE # 1							
ALASKA								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)		
27142		214-426	1703	/FTQW180105	9	,600		
impact fuel delivery operations. The newly constructed facility will provide a six								

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.

<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.

<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.

<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.

1. COMPONENT AIR FORCE		FY 2018 MILITARY Concerned (compute	ONSTRU	CTION erated	PROJECT	DATA	2	. DATE
3. INSTALLATI	ON AND L	OCATION		4. PRG	JECT TI	TLE		
EIELSON AIR F	ORCE BAS	E		F-35A	R-11 FU	EL TRUCK SHELT	rer	
EIELSON SITE	# 1							
ALASKA								
5. PROGRAM EI	LEMENT	6. CATEGORY CODE	7. PR	OJECT	NUMBER	8. PROJECT CC	OST	(\$000)
27142		214-426	1703	/FTQW	180105	9,	600	
12. SUPPLEME	NTAL DAT	A:						
a. Estimate	ed Design	n Data:						
(1) Proje	ct to be	accomplished by de	sign-b	uild p	procedur	es		
(2) Basis (a) S ⁴ (b) W1	tandard (here Des:	or Definitive Design ign Was Most Recent:	n - Ly Used	1 -				NO
(3) All C	ther Des	ign Costs						384
(4) Const	ruction	Contract Award					18	FEB
(5) Const	ruction	Start					18	MAR
(6) Const	ruction	Completion					19	DEC
(7) Energ	y Study/	Life-Cycle analysis	was/w	ill b	e perfor	med		YES
b. Equipmer	nt associ	iated with this pro	ject pr	ovide	d from c FISC2	other appropri	ati	COST
EQUIPMEN'	T NOMENC	LATURE	OKING	AFFRC	OR RE	QUESTED		(\$000)
FURNISHI	NGS		3400		2	2019		10
COMMUNIC	ATIONS		3400		2	2019		5

r							
1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DA	ГА	2. DATE
AIR FORCE		(c					
3. INSTALLATION	, SITE	AND LOCATION		4. PI	ROJECT TITLE	1	÷
EIELSON AIR FOR EIELSON SITE # ALASKA	CE BAS	SE		F-357	A SATELLITE	DINING FACILI	ТҮ
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT (COST (\$000)
27142		722-351	1703	/FTQW1	80106	4	3,000
		9. 0	COST ESTIMA	ATES			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILIT	IES						4,980
SATELLITE DINI	NG FAC	ILITY		SM	437	11,172	(4,882)
SUSTAINABILITY	AND E	NERGY MEASURES		LS		ĺ	(98)
SUPPORTING FACE	LITIES						1,908
UTILITIES				LS			(157)
SITE IMPROVEME	NTS			LS			(1,296)
PAVEMENTS				LS			(196)
COMMUNICATIONS				LS			(34)
ENVIRONMENTAL	REMEDI	ATION		LS			(150)
ARCHEOLOGICAL				LS			(75)
SUBTOTAL							6,888
CONTINGENCY	(5.0%))					344
TOTAL CONTRACT	COST						7,233
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(6.5%)				470
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF \$	SUBTOTAL)			_	276
TOTAL REQUEST							7,978
TOTAL REQUEST (1	ROUNDE	D)					8,000
EQUIPMENT FROM	OTHER	APPROPRIATIONS (NON-	ADD)				1,100
10. Descripti in-place reinf standing seam accommodate th	on of forced metal ne mis	Proposed Construct footing and found roof, utilizing of sion of the facil:	ction: Co dation wal convention ity. The f	nstru ls, s al de acili	nct a dinin plit-face esign and c ty should	g facility w CMU walls, a construction be compatible	with cast- and a methods to Le with

standing seam metal rooting and foundation walls, split-face two 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.

Air Conditioning: 17 Tons 11. Requirement: 437 SM Adequate: 0 SM Substandard: 0 SM <u>PROJECT:</u> F-35A Satellite Dining Facility (New Mission) <u>REQUIREMENT:</u> Construct a new satellite dining facility on the southeast side of

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Previous editions are obsolete.

Page No.

1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE EIELSON AIR FORCE BASE F-35A SATELLITE DINING FACILITY EIELSON SITE # 1 ALASKA 7. RPSUID/PROJECT NUMBER 5. PROGRAM ELEMENT 8. PROJECT COST (\$000) 6. CATEGORY CODE 27142 722-351 1703/FTQW180106 8,000 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. CURRENT SITUATION: 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. IMPACT IF NOT PROVIDED: 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.

ADDITIONAL: 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 nonfrost susceptible material. 354th Fighter Wing Base Civil Engineer: (907) 377-5213. Satellite Dining Facility: 437 SM = 4,704 SF.

1. COMPONENT AIR FORCE		FY 2018 MILITARY C (comput	ONSTRU er gen	CTION	PROJECT	DATA	2	. DATE
3. INSTALLATION AND LOCATION 4. PROJECT TITLE								
EIELSON AIR F EIELSON SITE ALASKA	ORCE BAS # 1	E		F-35A	SATELLI	TE DINING FA	CILI	TY
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PR	OJECT	NUMBER	8. PROJECT (COST	(\$000)
27142		722-351	170:	3/FTQW	180106	8	,000)
12. SUPPLEMEN	TAL DAT	A:						
a. Estimate	d Design	Data:						
(1) Proje	ct to be	accomplished by de	sign-h	ouild :	procedur	es		
(2) Basis (a) St (b) Wh	: andard o ere Des:	or Definitive Desig ign Was Most Recent	n - ly Use	d -				NO
(3) All O	ther Des	ign Costs						320
(4) Const	ruction	Contract Award					18	FEB
(5) Const	ruction	Start					18	MAR
(6) Const	ruction	Completion					19	DEC
(7) Energ	y Study/	Life-Cycle analysis	was/w	vill b	e perfor	med		YES
b. Equipmen	t associ	lated with this pro	ject p	rovide	d from c	other appropr	iat	ions:
EQUIPMENT	NOMENCI	PROC	URING	APPRC	APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)
KITCHEN H	QUIPMEN	Г	3080)	2	2019		950
COMM EQUI	PMENT		3400)	2	2019		150

1. COMPONENT	FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE		
AIR FORCE	(computer generated)							
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE EIELSON AIR FORCE BASE F-35A CONSOLIDATED MUNITIONS ADMIN EIELSON SITE # 1 FACILITY ALASKA FACILITY								
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
27142	610-144	1703/	FTQW1	.80107		27,000		
	9. (COST ESTIMA	TES					
	ITEM		U/M	QUANTITY	UNIT	COST (\$000)		
PRIMARY FACILITIES						14,477		
MUNITIONS ADMINISTR	ATIVE FACILITY (610-1	L44)	SM	1,137	7,250	(8,243)		
HEATED VEHICLE STOR	AGE (214-426)		SM	183	7,175	(1,313)		
MUNITIONS TRAINING	BAY (216-642)		SM	148	8,119	(1,202)		
EQUIPMENT MAINTENAN	CE BAY (218-712)		SM	483	7,112	(3,435)		
SUSTAINABILITY AND	ENERGY MEASURES		LS			(284)		
SUPPORTING FACILITIE	S					8,433		
SITE IMPROVEMENTS			LS			(3,850)		
UTILITIES			LS			(2,499)		
COMMUNICATIONS			LS			(134)		
PAVEMENTS			LS			(1,725)		
ENVIRONMENTAL REMED	IATION		LS			(150)		
ARCHEOLOGICAL MONIT	ORING		LS			(75)		
SUBTOTAL						22,910		
CONTINGENCY (5.09	\$)					1,145		
TOTAL CONTRACT COST						24,055		
SUPERVISION, INSPECT	ION AND OVERHEAD	(6.5%)				1,564		
DESIGN/BUILD - DESIG	N COST (4.0% OF S	SUBTOTAL)				916		
TOTAL REQUEST						26,535		
TOTAL REQUEST (ROUND	ED)					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								

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)

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	1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA					
	AIR FORCE		(c	omputer ger	nerated)			
	3. INSTALLATION	INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE						
EIELSON AIR FORCE BASE					F-35A CONSOLIDATED MUNITIONS ADMIN			
	EIELSON SITE #	1			FACILITY			
	ALASKA							
	5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)	
	27142		610-144	1703/FTOW180107 27,00				

REQUIREMENT: 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.

CURRENT SITUATION: 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.

IMPACT IF NOT PROVIDED: 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.

ADDITIONAL: 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

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1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE						
AIR FORCE		(computer generated)						
3. INSTALLATION EIELSON AIR FOR EIELSON SITE # ALASKA	, SITE CE BAS 1	E AND LOCATION	4. PROJECT TITLE F-35A CONSOLIDAT FACILITY	ED MUNITIONS A	DMIN			
5. PROGRAM ELEM	IENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)		
27142		610-144 1703/FTQW180107 27,000						

SM = 5,199 SF.

1. COMPONENT AIR FORCE		FY 2018 MILITARY ((comput	CONSTRU	UCTION PRO	OJECT	DATA	2. DATE		
3. INSTALLATIO	ON AND L	OCATION		4. PROJE	CT TI	rle			
EIELSON AIR F EIELSON SITE : ALASKA	ORCE BAS # 1	E		F-35A CO	NSOLII	DATED MUNITIO	IS ADMIN		
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUI	MBER	8. PROJECT CC	ECT COST (\$000)		
27142		610-144	170	3/FTQW180	107	27,	000		
12. SUPPLEMEN	TAL DATA	A:							
a. Estimate	d Desigr	1 Data:	aian-	build pro	andur	- -			
(1) Project	: LO De	accomprished by de	ssign-	build pro	cedur	25			
(1) bubib (a) St (b) Wh	andard d ere Des:	or Definitive Desig ign Was Most Recent	n - ly Use	ed -			NO		
(3) All O	ther Des	ign Costs					1,060		
(4) Constr	ruction	Contract Award					18 FEB		
(5) Constr	ruction	Start					18 MAR		
(6) Construction Completion									
(7) Energy	y Study/	Life-Cycle analysi	s was/	will be p	erfor	med	YES		
b. Equipmen	t associ	ated with this pro	ject p	provided f	FISCA	ther appropri NL YEAR	ations:		
EQUIPMENT	NOMENCI	PRO	CURING	APPRC	APPRO OR RE	PRIATED QUESTED	COST (\$000)		
FURNISHIN	IGS		340	0	2	019	485		
COMMUNICA	TIONS		340	0	2	019	243		

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE	
AIR FORCE		(c	omputer gen	erate	d)			
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE				
EIELSON AIR FOR	CE BAS	E		F-35A	ADAL CONVE	NTIONAL MUNI	TIONS FACILITY	
EIELSON SITE #	1							
ALASKA								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27142		216-642	2,500					
		9. C	OST ESTIMA	TES				
				/		UNIT	COST	
		TIEW		0/M	QUANTITY		(\$000)	
PRIMARY FACILIT:	IES						1,532	
ADD CONVENTION	AL MUN	ITIONS FACILITY		SM	117	9,323	(1,091)	
ALTER CONVENTION	ONAL M	UNITIONS FACILITY		SM	100	4,111	(411)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(30)	
SUPPORTING FACIN	LITIES						620	
UTILITIES				LS			(52)	
PAVEMENTS				LS			(19)	
SITE IMPROVEME	NTS			LS			(324)	
ENVIRONMENTAL				LS			(150)	
ARCHEOLOGICAL				LS			(75)	
SUBTOTAL							2,152	
CONTINGENCY	(5.0%)					108	
TOTAL CONTRACT (COST						2,259	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				147	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				86	
TOTAL REQUEST							2,492	
TOTAL REQUEST (1	ROUNDE	D)					2,500	
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				(150)	
10. Descripti	on of	Proposed Construc	ction: Add	d/Alt	er a Conve	entional Mu	nitions	
facility and s	uppor	ting facilities fo	or F-35 ai:	rcraf	t, with ca	st-in-place	e reinforced	
footing and fo	undat	ion walls, split-	Eace CMU wa	alls,	and a sta	anding seam	metal roof,	
utilizing conv	rentic	nal design and con	nstruction	meth	ods to acc	commodate th	ne mission	
of the facilit	y. Th	e facility should	be compat:	ible	with appli	cable DoD,	Air Force,	
systems, all u	n sta tilit	ies. pavements. co	arry, che j ommunicatio	proje ons.	site impro	vements. a	ad	
associated sup	port	facilities to prov	vide a com	plete	and useak	ole facility	7. The	
facility must	- be ab	le to withstand w	ind loads a	and s	eismic eff	ects as pre	escribed in	
applicable cod	les an	d design guides. S	The facili	ty wi	ll be comp	atible with	n applicable	
DoD, Air Force	, and	base design stand	dards and o	desig	ned as per	manent cons	struction in	
accordance wit	h the	DoD Unified Facil	lities Crit	teria	(UFC) 1-2	200-01, Gene	eral Building	
Requirements a	na UP This	project will comp	lv with Do	e and D ant	iterroria	/force prot	ection	
requirements p	er UF	C 4-010-01.	-,	u		., 10100 p10		
Air Conditioni	ng:	0 Tons						
11. Requirement	t: 19	656 SM Adequate	e: 19439 SI	м	Substandar	d: 100 SM		
PROJECT: F-35	A ADA	L Conventional Mur	nitions Fa	cilit	y (New Mis	sion)		
REQUIREMENT: alter existing	Const admi	ruct an addition on nistrative area.	onto the co The additio	onven on an	tional mur d altered	nitions fac: areas are a	ility and admin spaces	

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1. COMPONENT	FY 2018 MILITARY CONSTRU	JCTION PROJECT DATA	2. DATE
AIR FORCE	(computer ge		
3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TITLE	

EIELSON AIR FORCE BAS	E	F-35A ADAL CONVE	NTIONAL MUNITIONS FACILITY
EIELSON SITE # 1			
ALASKA			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27142	216-642	1703/FTQW180108	2,500

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.

<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.

IMPACT IF NOT PROVIDED: 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. <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 nonfrost 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

1. COMPONENT AIR FORCE		FY 2018 MILITARY (CONSTRU	CTION	PROJECT	DATA	2	. DATE
3. INSTALLATI	ON AND L	OCATION		4 PR		тт. к		
EIELSON AIR F EIELSON SITE ALASKA	ORCE BAS # 1	E		F-35A FACIL	ADAL CO	NVENTIONAL MUN	IT:	IONS
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PR	OJECT	NUMBER	8. PROJECT CC	ST	(\$000)
27142		216-642	1703	3/FTQW	180108	2,	500	
12. SUPPLEMEN	TAL DAT	A:						
a. Estimate	d Desigr	Data:						
(1) Proje	ct to be	accomplished by de	esign-b	ouild p	procedur	es		
(2) Basis (a) St (b) W1	: andard o here Des:	or Definitive Desig ign Was Most Recent	n - ly Use	d -				NO
(3) All O	ther Des	ign Costs						100
(4) Const	ruction	Contract Award					18	FEB
(5) Const	ruction	Start					18	MAR
(6) Const	ruction	Completion					19	JUN
(7) Energy	y Study/	Life-Cycle analysi:	s was/v	vill b	e perfor	med		YES
b. Equipmen	it associ	ated with this pro	ject p	rovide	ed from c	other appropri	ati	ons:
EQUIPMENI	NOMENCI	PRO	CURING	APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)
FURNISHI	IGS		3400)	2	2019		100
COMMUNICZ	ATIONS E	QUIP	3400)	2	2019		50

1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE									
AIR FORCE			(computer ger	erate	d)						
3. INSTALLATION	, SIT	E AND LOCATION		4. PF	OJECT TITL	E					
EIELSON AIR FOR	CE BA	SE	F-35A EXTEND UTILIDUCT TO SOU			TH LOOP					
EIELSON SITE #	1										
ALASKA			1								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT C	OST (\$000)				
27142		890-181	1703/3	FTQW18	0111	41	3,000				
	9. COST ESTIMATES										
						UNIT	COST				
		ITEM		U/M	QUANTITY		(\$000)				
PRIMARY FACILIT	ES						42,495				
ADD UTILIDUCT					2,715	13,200	(35,838)				
ALTER UTILIDUCT				LM	520	11,200	(5,824)				
SUSTAINABILITY	AND H	ENERGY MEASURES		LS			(833)				
SUPPORTING FACII	LITIES	1					771				
PAVEMENTS				LS			(296)				
WETLAND REMEDI	ATION			LS			(250)				
ENVIRONMENTAL				LS			(150)				
ARCHEOLOGICAL				LS			(75)				
SUBTOTAL							43,266				
CONTINGENCY	(5	5.0%)					2,163				
TOTAL CONTRACT (COST					-	45,430				
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				2,953				
TOTAL REQUEST						-	48,382				
TOTAL REQUEST (ROUNDE	D)					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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1. COMPONENT		FY 2018 MILI	TARY CONSTRU	JCTION PROJECT DA	ATA	2. DATE
AIR FORCE		(computer ger	nerated)		
3. INSTALLATION	, SITI	E AND LOCATION		4. PROJECT TITL	E	
EIELSON AIR FOR	CE BA	SE		F-35A EXTEND UT:	ILIDUCT TO SOUT	H LOOP
EIELSON SITE # 1						
ALASKA						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER 8.		8. PROJECT COST (\$000)	
27142		890-181	1703/FTQW180111		48,000	
loss of heat to	o fac	ilities under arc	tic condit	ions. A resilie	ent source of	steam is
critical to en	sure	personnel safety	and facili	ty survivabilit	y in the ext	reme cold
experienced at	this	arctic base. A w	vaterline i	s also required	d to meet fac:	ilities
criteria for f	ire s	uppression. Loopi	ng the dea	d-end waterline	e is needed to	c
eliminate a key	y vul	nerability as wel	l as to pr	ovide adequate	pressures and	1 water
flow needed for	r fir	e suppression in	aircraft f	acilities. Sewe	er mains in th	he

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.

CURRENT SITUATION: 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.

IMPACT IF NOT PROVIDED: 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.

ADDITIONAL: 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.

JOINT USE CERTIFICATION: 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.

1. COMPONENT		FY 2018 MILITARY CO	ONSTRUC	TION PROJECT	DATA	2. DATE			
AIR FORCE		(compute	er gene	rated)					
3. INSTALLATI	ON AND L	OCATION		4. PROJECT 1	TITLE				
EIELSON AIR F EIELSON SITE ALASKA	ORCE BAS # 1	3E		F-35A EXTENI	O UTILIDUCT TO) SOUTH LOOP			
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)			
27142		890-181	1703/FTQW180111 48,000						
12. SUPPLEMEN	TAL DAT	A:							
a. Estimate	d Design	n Data:							
(1) Statu	s:	_							
(a) Da	te Desig	gn Started		- .	20	-MAY-16			
(b) Pa	rametrio	c Cost Estimates use	ed to de	evelop costs		YES			
* (c) Pe	ercent Co	omplete as of 01 JAN	1 2017			15%			
* (d) Da	te 35% I	Designed			01	-MAR-17			
(e) Da	te Desig	gn Complete			01	-SEP-17			
(f) Er	lergy Sti	udy/Life-Cycle analy	rsis was	s/will be per	formed	YES			
(2) Basis	:								
(a) St	andard o	or Definitive Design	ı —			NO			
(b) Wh	ere Desi	ign Was Most Recentl	y Used	-					
(3) Total	Cost ((a) = (a) + (b) or (d)) + (e)):		(\$000)			
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		2,880			
(b) Al	1 Other	Design Costs				1,440			
(c) To	tal	2				4,320			
(d) Co	ntract					3,600			
(e) In	-house					720			
(4) Const	ruction	Contract Award				18 FEB			
(5) Const	ruction	Start				18 MAR			
(6) Const	ruction	Completion				20 JUN			
* Indicat which i cost an	es compl s compan d execut	letion of Project De rable to traditional rability.	finitio . 35% de	on with Param esign to ensu	etric Cost Es re valid scop	timate e,			
b. Equipmer N/A	it associ	iated with this proj	ect pro	ovided from o	ther appropri	ations:			
L									

1. COMPONENT		FY 20	18 MILI	TARY	CONSTR	υςτιο	GRAM	2. DATE (YYYMMDD)				
3. INSTALLATION AND LOCATION				4. COM	MAND				5. AREA CONSTRUCTION			
BUCKLEY AIR FORCE BASE				AIR FO	RCE SPAG	CE COMM	MAND		COST	1.1		
6. PERSONNEL	(1) F	PERMAN	ENT	(2)	STUDEN	ITS	(3)	SUPPOR	TED	ΤΟΤΑΙ		
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN			
a. AS OF 30-Sep-16	172	810	392	0	0	0	870	4217	1374	7,83		
b. END FY 2022	172	802	389	0	0	0	870	4217	1374	7,82		
a. TOTAL ACREAGE	4,239											
b. INVENTORY TOTAL AS OF	30-Sep-	-16								1,487,12		
c. AUTHORIZATION NOT YET IN INV	ENTOR			0)						13,50		
e. PLANNED IN NEXT FOUR PROGR		RS (FY 2	019-202	8) 2)						38,00		
f. REMAINING DEFICIENCY		- 1		/						15,00		
g. GRAND TOTAL	OGRAM	(EV 2018)							1,553,62		
6. FROSECTS REQUESTED IN THIS FR	a. CA	TEGOR	(b. C	OST	c. DESIGN STATUS		
(1) CODE (2) PR			(3) SCOP	Έ	(\$0	000)	(1) START (2) COMPLET				
131-200 SBIRS Operations Facil				5	5,845 S	М	38,	000	Design/Build			
			_				TOTAL	38,	000			
				FL	ITURE Pf	ROJECT	S TOTAL		0			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	18	1.1			
10. MISSION OR MAJOR FUNCTIONS							1 h h					
global infrared surveillance, t	racking	and mi	ssile v	varning	for the	ater a	nd home	land de	fense.	rior Arriven and derive.		
TT. OUTSTANDING POLLUTION AND S	AFEIYE	PERICIEN	UES (F	r 2018-20	JZZ)							
a. Air Pollution												
b. Water Poliution												
c. Occupational Safety and Health												
d. Other Environmental												
				GTAND			S TOTA		0			
DD Form 1390, JUL 1999			PRF				FTF		v			

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE
AIR FORCE		(c	omputer gen	erate	d)		
3. INSTALLATION	, SITE	AND LOCATION		4. PR	OJECT TITLE	5	L
BUCKLEY AIR FOR	CE BAS	E		SBIRS	OPERATIONS	5 FACILITY	
BUCKLEY AFB SIT	E # 1						
COLORADO							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJEC	CT NUMBER	8. PROJECT	COST (\$000)
27576	27576 131-200 153				93002		38,000
		9. C	OST ESTIMA	TES			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILIT	IES						23,423
SBIRS OPERATION	NS FAC	ILITY (131-200)		SM	5,715	3,934	(22,483)
MCS EMERGENCY	POWER	PLANT FACILITY (811-	147)	SM	130	3,770	(490)
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(450)
SUPPORTING FACIN	LITIES						9,450
PAVEMENTS				LS			(210)
UTILITIES				LS			(560)
SITE IMPROVEME	NTS			LS			(1,100)
SPECIAL FOUNDA	TIONS			LS			(562)
EXTERIOR COMMU	NICATI	ONS 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, IN	SPECTI	ON AND OVERHEAD	(5.7%)				1,967
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF 5	SUBTOTAL)				1,315
TOTAL REQUEST							37,799
TOTAL REQUEST (1	ROUNDE	D)					38,000
EQUIPMENT FROM (THER	APPROPRIATIONS (NON-	ADD)				5,032
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ct a Space	Based Infi	rared System
(SBIRS) facili	ty ut	ilizing convention	nal design	and	constructi	on methods	to
accommodate th	e mis	sion of the facili	ity. The	facil	ity will i	nclude rei	nforced
concrete found	lation	and floor slab, o	concrete a	nd co	ncrete mas	sonry unit w	walls
structural ste	el fr	ame and roof syste	em. Proje	ct wi	ll include	e fire supp	ression
(IIPS), pavemen		communications, and	isite impr	oveme	nts and as	sociated s	u POwer Suppry
facilities to	provi	de a complete and	useable fa	acili	ty. Addit	ionally, an	n emergency
generator and	- redun	dant commercial po	ower feed	will	- be provide	ed for exist	ting SBIRS
Mission Contro	l Sta	tion (MCS). This p	project de	molis	hes two bu	ildings (3	730 SM).
Facilities wil	l be	designed as perman	nent const	ructi	on in acco	ordance with	h the DoD
Unified Facili	ties	Criteria (UFC) 1-2	200-01, Ge	neral	Building	Requirement	ts and UFC
1-200-02, High	Perf	ormance and Sustai	inable Bui	Iding	Requireme	ents. This	project will
Comply with Do	ant u	.iterrorism/iorde I	protection	requ	Trements I	ber UFC 4-10	UI-UI.
Air Conditioni	ng:	62 TONS					
11. Requiremen	it: 12	2007 SM Adequate	e: 6162 SM	S	ubstandard	1: 7457 SM	
PROJECT: Cons	truct	SBIRS Operations	Facility.	(Cu	rrent Miss	sion)	

1. COMPONENT AIR FORCE		FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE (computer generated)						
3. INSTALLATION, BUCKLEY AIR FORC BUCKLEY AFB SITE COLORADO	, SITE CE BAS E # 1	AND LOCATION E	4. PROJECT TITLE SBIRS OPERATIONS FACILITY					
5. PROGRAM ELEME 27576	ENT	6. CATEGORY CODE 131-200	7. RPSUID/ 1530	OST (\$000) 3,000				
REQUIREMENT: 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.

<u>CURRENT SITUATION:</u> 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.

IMPACT IF NOT PROVIDED: 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.

<u>ADDITIONAL:</u> 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.

JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.

	FY 2018 MILITARY Co	ONSTRU er gen	CTION erated	PROJECT	DATA	2. DATE
ON AND L	OCATION		4. PR	OJECT TI	TLE	
ORCE BAS ITE # 1	E		SBIRS	OPERATIO	ONS FACILITY	
EMENT	6. CATEGORY CODE	7. PR	OJECT	NUMBER	8. PROJECT C	OST (\$000)
	131-200	1530)/CRWU	093002	38	,000
TAL DAT	A:					
d Design	n Data:					
ct to be	accomplished by de	sign-k	uild p	procedur	es	
: andard o here Des:	or Definitive Design ign Was Most Recent]	n - Ly Use	d -			NO
ther Des	ign Costs					1,520
ruction	Contract Award					18 FEB
ruction	Start					18 MAR
ruction	Completion					20 MAR
y Study/	Life-Cycle analysis	was/v	vill b	e perfor	med	YES
NOMENCI	PROC	URING	APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED	COST (\$000)
IGS		3400)	2	020	3,559
ATIONS		3080)	2	020	1,473
	ON AND I ORCE BAS ITE # 1 JEMENT AMENT ADDESIGN Ct to be candard of here Des: ther Des ruction ruction ruction y Study/ at associ T NOMENCI NGS ATIONS	FY 2018 MILITARY CG (compute ON AND LOCATION ORCE BASE ITE # 1 EMENT 6. CATEGORY CODE 131-200 VTAL DATA: ed Design Data: ct to be accomplished by de: candard or Definitive Design here Design Was Most Recent1 ther Design Costs ruction Contract Award ruction Start ruction Completion y Study/Life-Cycle analysis at associated with this prot PROC r NOMENCLATURE NGS ATIONS	FY 2018 MILITARY CONSTRU (computer gen ON AND LOCATION ORCE BASE ITE # 1 JEMENT 6. CATEGORY CODE 7. PR 131-200 1530 NTAL DATA: 1530 ed Design Data: 1530 ct to be accomplished by design-h: 1530 candard or Definitive Design - - here Design Costs 1000 ruction Contract Award 1000 ruction Start 1000 ruction Completion 9 Study/Life-Cycle analysis was/wat associated with this project pr PROCURING 900 T NOMENCLATURE 9400 NGS 3400 ATIONS 3080	FY 2018 MILITARY CONSTRUCTION (computer generated) ON AND LOCATION ORCE BASE ITE # 1 4. PR SBIRS EMENT 6. CATEGORY CODE 131-200 7. PROJECT 1530/CRWU WTAL DATA: 6. CATEGORY CODE 131-200 7. PROJECT Tat Data: 5. Category Code 1330/CRWU 7. PROJECT WTAL DATA: 6. Category Code 131-200 7. PROJECT Tat Data: 5. Category Code 1330/CRWU 7. PROJECT Tat Data:	FY 2018 MILITARY CONSTRUCTION PROJECT (computer generated) ON AND LOCATION ORCE BASE 4. PROJECT TI SBIRS OPERATION ITE # 1 5. CATEGORY CODE 131-200 7. PROJECT NUMBER 1530/CRWU093002 WTAL DATA: 6. Category code 131-200 7. PROJECT NUMBER 1530/CRWU093002 WTIONS Sator 7. PROJECT NUMBER 1530/CRWU093002 WES Sator 7. PROCURING APPRC APPRO OR RE NGS 3400 2 ATIONS 3080 2	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated) ON AND LOCATION ORCE BASE ITE # 1 4. PROJECT TITLE SBIRS OPERATIONS FACILITY CREENT 6. CATEGORY CODE 131-200 7. PROJECT NUMBER 8. PROJECT C 1530/CRWU093002 TTAL DATA: 131-200 1530/CRWU093002 38 TTAL DATA: 1530/CRWU093002 38 TTAL DATA:

1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROGRAM 2. DATE (YYYMMDD) 20150020								(YYYMMDD) 20160930
3. INSTALLATION AND LOCATION				4. COM	MAND				5. AREA	CONSTRUCTION
FORT CARSON COLORADO				AIR CON	MBAT CON	MAND			COST	1 09
6. PERSONNEL	(1)	PERMAN	ENT	(2)	STUDEN	TS	(3)	SUPPOR	TED	ΤΟΤΑΙ
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
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
7. INVENTORY DATA (\$000) a. TOTAL ACREAGE	N/A Ter	nant.								
b. INVENTORY TOTAL AS OF	30-Sep	-16								
c. AUTHORIZATION NOT YET IN INV	ENTOR		L/EV 201	8)						13,000
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)							13,000			
f. REMAINING DEFICIENCY							0			
g. GRAND TOTAL 26,000 8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)										
a. CATEGORY b. COST c. DESIGN STATUS								c. DESIGN STATUS		
(1) CODE (2) PR	OJECT T	ITLE			(3) SCOP	E CM	(\$0	000)	(1) START (2) COMPLETE
141-753 15 ASOS Expansion						3,343	SM	13,	000	Design/Build
	PROCR		S (EV20	10 - EV2	1221		TOTAL	13,	000	
				FU	ITURE PF	ROJECT	S TOTAL		0	
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	0	.0	
10. MISSION OR MAJOR FUNCTIONS	ce the	.Toint W	arfight	er Tear	n hy Pro	widing	Combat	Miggio	n Ready	Airmen to Advise
Integrate & Control Air and Spa	ce Powe	r in Su	pport o	of the 4	4th Infa	antry D	vivision		in neury	
11. OUTSTANDING POLLUTION AND S	SAFETY [DEFICIEN	ICIES (F	Y 2018-20	022)					
a. Air Pollution										
b. Water Pollution	b. Water Pollution									
c. Occupational Safety and Health										
d. Other Environmental										
				STANDI	NG DEFIC		S TOTAL		0	
DD Form 1390, JUL 1999			PRE	VIOUS E	DITION IS	S OBSOL	EIE.			

MAY 2017

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE		
AIR FORCE	(computer ge				d)				
3. INSTALLATION	, SITE	E AND LOCATION		4. PROJECT TITLE					
FT CARSON				13 ASOS EXPANSION					
COLORADO									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
27418		141-753	/A	CC123	301	<u>:</u>	L3,000		
		9. 0	OST ESTIM	TES		•			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)		
PRIMARY FACILIT	IES						8,309		
SQUADRON OPERA	TIONS	(141-753)		SM	1,648	2,857	(4,708)		
INTEGRATED MAI	NTENAN	CE SHOP (212-220)		SM	535	3,036	(1,624)		
BASE SUPPLY AN	D EQUI	PMENT SHED (442-628)		SM	298	910	(271)		
VEHICLE OPERAT	IONS P	ARKING SHED (214-428	3)	SM	864	1,778	(1,536)		
SUSTAINABILITY	AND E	NGERGY MEASURES		LS			(169)		
SUPPORTING FACIN	LITIES						2,710		
UTILITIES				LS			(1,029)		
PAVEMENTS				LS			(610)		
SITE IMPROVEME	NTS			LS			(799)		
SPECIAL FOUNDA	TIONS			LS			(272)		
SUBTOTAL						-	11,019		
CONTINGENCY	(5.0%)					551		
TOTAL CONTRACT	COST					-	11,570		
SUPERVISION, IN:	SPECTI	ON AND OVERHEAD	(5.7%)				660		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				441		
TOTAL REQUEST						-	12,671		
TOTAL REQUEST (1	ROUNDE	D)					13,000		
EQUIPMENT FROM	OTHER	APPROPRIATIONS (NON-	ADD)				390		
10. Descripti supply/equipme	on of ent fa	Proposed Construction	ction: Co torage she	nstru lter	and expand	enance shop l the existi	, ng Air		

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.

Air Conditioning: 50 Tons

11. Requ	irement: 848	3 SM Adeq	uate: 5138	SM	Substandard:	0	SM
PROJECT	13 ASOS Ex	pansion (New	Mission).				

1. COMPONENT	FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE						
AIR FORCE	(computer generated)						
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE							
FT CARSON 13 ASOS EXPANSION							
COLORADO							
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID	PROJECT NUMBER	8. PROJECT C	OST (\$000)		
27418	141-753	/1	ACC123301	13	,000		
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.							
CURRENT SITUAT requirements, within the con support the pr was constructe the 13th ASOS Command) have	<u>ION:</u> Current facilit but will not support fines of the current ogrammed growth of th d and occupied in 200 mission has been expa	ies are ade new missior facilities. e new missi 9. Since co nded; the u	quately sized f requirements. Additional sp on. The existi mpletion of the unit and its MAJ	or the current No growth is ace is requi- ng 13th ASOS original co COM (Air Com	nt mission possible red to facility nstruction bat		

and administrative functions. <u>IMPACT IF NOT PROVIDED</u>: 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

that are absent from the existing ASOS facility, as well as associated personnel

the installation.

ADDITIONAL: 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

1. COMPONENT AIR FORCE		FY 2018 MILITA (CO	ARY COM pompute:	NSTRU r ger	OCTION	PROJECT	DATA	2	. DATE
3 INSTALLATI		OCATION			4 00			1	
FT GADGON	ON AND L	OCATION			10 NC	OULCI II	ILE		
FT CARSON					13 AS	US EXPAN	ISTON		
COLORADO							1		
5. PROGRAM EL	EMENT	6. CATEGORY C	CODE	7. PF	OJECT	NUMBER	8. PROJECT CO	OST	(\$000)
27418		141-753		/	ACC123	301	13	,00	0
12. SUPPLEMEN	TAL DAT	A:					1		
a. Estimate	d Design	n Data:							
(1) Projec	ct to be	accomplished h	by des	ign-1	ouild	procedur	es		
(2) Basis (a) St (b) Wh	: andard o ere Des:	or Definitive D ign Was Most Re	esign cently	- 7 Use	d -				NO
	ther Des	ion Costs							520
	CHEL Des							10	520
(4) Const:	ruction	Contract Award						18	FEB
(5) Const:	ruction	Start						18	MAR
(6) Const:	ruction	Completion						19	SEP
(7) Energ	y Study/	Life-Cycle anal	lysis	was/w	will b	e perfor	rmed		YES
b. Equipmen	t associ	iated with this	proje	ect p	rovide	d from o	other appropri	.ati	lons:
EQUIPMENI	NOMENC	LATURE	PROCU	RING	APPRC	FISC APPRO OR RI	AL YEAR DPRIATED EQUESTED		COST (\$000)
COMMUNIC	TIONS			3400)		18		200
FURNISHIN	IGS, FIX	TURES & EQUIP		3400)		18		190

1. COMPON	ENT		FY 20	FY 2018 MILITARY CONSTRUCTION PROGRAM							2. DATE (YYYMMDD) 20160930			
3. INSTALL	ATION AND LOCATION				4. COM	4. COMMAND 5. ARE								
UNITED STA COLORADO	TES AIR FORCE ACADEMY				UNITED	STATES	AIR FO	RCE ACA	DEMY	COST	1.08			
6. PERSON	NEL	(1)	PERMAN	ENT	(2)	STUDEN	ITS	(3)	SUPPOR	TED	то	TAL		
a AS OF	30-Sep-16	929	1011	2483	OFFICER	182		OFFICER 21	4400	190		9,216		
b END FY	2022	902	872	2223	0	182	0	21	4400	190		8,790		
7. INVENTO	RY DATA (\$000)		-									-		
a. TOTAL		53,276	-16									2 946 161		
c. AUTHO	DRIZATION NOT YET IN INV	/ENTOR	ŕ									92,800		
d. AUTHO	ORIZATION REQUESTED IN	N THIS P	ROGRAN	(FY 201	2)							30,000		
f. REMA	NING DEFICIENCY			.010 202	Z)							64,300		
g. GRAN 8. PROJECT	D TOTAL S REQUESTED IN THIS PR	OGRAM	(FY 2018	?)								3,166,261		
0.11100201		a. C/	TEGOR	ſ					b. (OST	c. DESIG	N STATUS		
(1) CODE	(2) PR Air Force CyberWorx	OJECT 1	ITLE			(3) SCOP 5.574	E SM	(\$0 30	000) 000	(1) START	(2) COMPLETE		
1/1 000							-,	DIA			03717	00/10		
								TOTAL	30	000				
9. FUTURE	PROJECTS IN NEXT FOUR	PROGR	AM YEAF	S (FY20	19 - FY20	022)	6 522	SM	33	000				
				-										
					FL	ITURE PI	ROJECT	S TOTAL	33.	000				
10. MISSION	I OR MAJOR FUNCTIONS							TOTAL	25	.8				
Responsibl	e for providing educa	tion an	d train	ing for	r cadet:	s to be	come Ai	r Force	office	rs; a t	raining wing	g including		
chree riyi	ng training squadrons	suppor	ting pa	II aciiut.	ing anu	grider	aircia	it, and	all all	Dase w				
11. OUTSTA	NDING POLLUTION AND	SAFETY I	DEFICIEN	ICIES (F	Y 2018-2	022)								
					. 20.0 2	//								
a. Air Po	llution													
b. Water	Pollution													
-														
c. Occup	bational Safety and Health													
d. Other	Environmental													
				0.17				S TOT 41		0				
L				001	STANU	NG DEFI		SIUIAL		U				

1. COMPONENT	FY 2018 MIL	ITARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE		
AIR FORCE		(computer ger	erate	d)				
3. INSTALLATION, SI	ITE AND LOCATION		4. PROJECT TITLE					
USAF ACADEMY			AIR F	ORCE CYBERN	VORX			
USAF ACADEMY SI	ſE # 1							
5 BROGRAM FLEMENT	6 GATEGORY CODE					COST (\$000)		
	0. CATEGORI CODE	/. RP501D/P.	ROUECI	NUMBER	J. INCOLCI	(000)		
27576	171-853	3368/2	XQPZ16	4001	3	0,000		
	9.	COST ESTIM	TES					
					UNIT	COST		
	ITEM		0/M	QUANTITY		(\$000)		
PRIMARY FACILITIES						22,433		
AIR FORCE CYBERWOR	x		SM	3,068	4,982	(15,285)		
SPECIAL FOUNDATION	IS		SM	1,310	3,059	(4,007)		
BUILDING ENVELOPE			SM	2,999	898	(2,693)		
SUSTAINABILITY AND	ENERGY MEASURES		LS			(448)		
SUPPORTING FACILITI	ES					4,188		
UTILITIES/CONNECTI	ON 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, INSPEC	TION AND OVERHEAD	(5.7%)				1,593		
TOTAL REQUEST					-	29,546		
TOTAL REQUEST (ROUN	DED)					30,000		
EQUIPMENT FROM OTHE	R APPROPRIATIONS (NO	N-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 (USAFA) 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 2. DATE (computer generated)						
2 71/2/01/2 2 7/2				4 550750 5757		1	
3. INSTALLATION	, SITE	S AND LOCATION		4. PROJECT TITL	E		
USAF ACADEMY				AIR FORCE CYBERN	NORX		
USAF ACADEMY	SITE	# 1					
COLORADO							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CO	ST (\$000)	
27576		171-853	3368/2	XQPZ164001	30	,000	
protection req	uirem	ents per UFC 4-10	01-01.				
Air Conditioni	ng:	200 Tons					
11. Requiremen	t: 30	68 SM Adequate	e: 52242 SM	Substandard	l: 115057 SM		
DROTECT. Air	Forde	CuberWory (New I	dission)				
PRODECT: ATT	FOICE	CYDEINOIX (New I	11551011/		_		
REQUIREMENT:	A pro	perly sized and c	configured 2	Air Force Cyber	Worx is requi	ired to	
support traini	ng of	cadet candidates	s, permanen	t party, other	governmental	partners	
and business p	artne	rs. The goal is	to achieve	the unity of e	ffort require	ed to	
prevent malici	ous,	covert attempts t	o interrup	t and compromis	se the function	onal	
capacity of th	e DoD	networks. The pr	cocess of m	onitoring, ider	tifving, and		
countering the	se at	tacks will requir	re a collab	orative enviror	ment within v	which	
elements of al	l cyb	er activities car	be repres	ented in a col	located manne	ar while	
erements or ar	i cyb	active and defer	dine repres	enceu, in a coi	This fasility	,	
executing pass	1ve,	accive, and deren	isive netwo.		herefield	/ WIII	
incorporate ne	w tec	nnologies and pro	cesses tha	t will generate	benericial s	synergies	
through integr	ation	and collaboratio	on. Through	h an open work	environment t	chat	
incorporates s	calab	le, reconfigurabl	le work spa	ces, cyber asse	ts will be al	ole to	
achieve both a	ctual	and virtual coll	laboration	while maintaini	ing their fund	tional	
discipline.							
CURRENT STTUAT	TON	Air Force Cyber	Jory is how	sed on two floo	ors of Fairch	ild Hall	
(16 500 gm/1 5	22 GM	() noor the libra	which i	a not adoguato	to gupport th	dia null	
(10,500 5F/1,5		ngh (tooghing mig	.y, which i	s not adequate			
collaborative	resea	rcn/teaching miss	sion. The	current configu	iration does i	10t allow	
outside partne	r int	eraction, which i	is critical	to the develor	ment of this	future	
mission.							
IMPACT IF NOT	PROVI	DED: Without the	e proposed	collaborative o	apabilities o	of the Air	
Force CyberWor	x, Do	D's network opera	ations will	continue to be	come increas:	ingly	
wilnerable to	011r a	dversaries and AI	z warfighti	ng canabilities	will be degr	raded We	
will also be u	nable	to take advanta	e of outgi	de partner inte	ractions to	ingresse	
the lenger ledge		; co cake advancag	ge of outsi	a beauladea and	accions co . A genebilitie	-	
the knowledge	and c	verali cyber offe	ense/derens	e knowledge and	1 capabilities	5.	
ADDITIONAL: T	his p	project will be si	ited accord	ing to the US A	Air Force Acad	lemy	
Installation D	evelc	opment Plan. Requ	irements f	or Category Cod	de 171-853 are	e not	
listed in AFMA	N 32-	1084, Facility Re	equirements	. Criteria not	met in AFMA	N 32-1084	
is met by crit	eria	and scope consist	ent with i	ndustry standaı	ds. Costs fo	or this	
project were v	alida	ted using UFC 3-'	701-01 DOD	- Facilities Prid	ing Guide. '	The system	
owner will rei	 ⊦ain	ownership of the	additiona	1 utility infr		A Bago	
Giuil Engineen	. (71	0) 222 2660 Nim	Forge Cybe	where 2 069 Cl	$\mathbf{x} = 22 0.04 CE$	n Dabe	
		.9)-333-2000. AII	FOICE Cybe	IWOIX: 5,000 5	1 = 33,024 SF	,	
Special Founda	tions	3: 1,310 SM = 14,.	IOI SF, Bui	lding Envelope	: 2,999 SM =	32,281 SF.	
JOINT USE CERT	IFICA	ATION: This facil:	ity can be	used by other o	components on	an "as	
available" bas	is: h	nowever, the scope	e of the pr	oject is based	on Air Force		
requirements		,	· ···· F-				
- 04 011 Cm3110D .							

1. COMPONENT		FY 2018 MILITARY (CONSTRUC	TION PROJECT	DATA	2. DATE			
AIR FORCE	R FORCE (computer generated)								
3. INSTALLATI	ON AND L	OCATION		4. PROJECT	FITLE				
USAF ACADEMY				AIR FORCE C	YBERWORX				
U S A F ACADE	MY SITE	# 1							
	EMENT	6 CATECORY CODE	7 000			እሮሞ (ሮስሰሰ)			
27576	IEMEIN I	171_952	7. FRO	VOD7164001	a. PROJECI CC	000			
10 00000		1/1-055	53007	AQF2104001	507	,000			
12. SUPPLEMEN	TAL DATA	· Data							
(1) Statu		Data:							
(1) Statt	ite Desig	n Started			30	-MAR-17			
(b) Pa	rametric	Cost Estimates us	ed to de	evelop costs		YES			
* (c) Pe	ercent Co	mplete as of 01 JA	N 2017	-		15%			
* (d) Da	te 35% D	esigned			01	-DEC-17			
(e) Da	te Desig	n Complete			01	-JUN-18			
(f) Er	ergy Stu	dy/Life-Cycle anal	ysis wa	s/will be per	formed	YES			
(2) Pagig									
(2) Basis	andard o	r Definitive Desig	m _			NO			
(b) Wh	ere Desi	gn Was Most Recent	ly Used	-		No			
(3) Total	. Cost (c) = (a) + (b) or (d) + (e):		(\$000)			
(a) Pr	oduction	of Plans and Spec	ificatio	ons		1,800			
(b) Al	1 Other	Design Costs				900			
(c) To	tal					2,700			
(d) Co	ntract					2,250			
(e) In	-house					450			
(4) Const	ruction	Contract Award				18 AUG			
(5) Const	ruction	Start				18 SEP			
(6) Const	ruction	Completion				20 SEP			
* Indicat which i cost an	es compl s compar d execut	etion of Project I able to traditiona ability.	efinitio 1 35% do	on with Param	etric Cost Es re valid scop	timate e,			
b. Equipmer	it associ	ated with this pro	ject pro	ovided from c	other appropri	ations:			
				FISC	AL YEAR				
EQUIPMEN	I NOMENCI	ATURE AF	PROCURIN PROPRIA	G APPRO	PRIATED QUESTED	COST (\$000)			
EQUIPMEN	r		3080	2	2019	4,100			
DD FORM 1391, 1	DEC 99	Previous e	litions	are obsolete	. F	age No.			

1. COMPON	NENT		FY 20	18 MIL	ITARY C	CONSTR		N PRO	GRAM	2. DATE	(YYYMMDD)
3. INSTALL	ATION AND LOCATION				4. COM	MAND				5. AREA	CONSTRUCTION
EGLIN AIR	FORCE BASE				AIR FO	RCE MATI	ERIEL C	OMMAND		COST	
6. PERSON	NEL	(1)	PERMAN	ENT	(2)	STUDEN	ITS	(3)	SUPPOR	TED	0.84
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	IOTAL
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
7. INVENTO	DRY DATA (\$000)	153 51	6								
b. INVEN	TORY TOTAL AS OF	30-Sep	-16								4,447,994
c. AUTH	ORIZATION NOT YET IN INV	/ENTOR	(88,600
d. AUTH	ORIZATION REQUESTED IN		ROGRAN	l (FY 201	(<i>8)</i>						46,700
f. REMA	INING DEFICIENCY			019-202	2)						653,150
g. GRAN	ID TOTAL										5,338,844
8. PROJECT	IS REQUESTED IN THIS PR	OGRAM	(FY 2018)	3) •					L h C	TZO	C DESIGN STATUS
(1) CODE	(2) PR	OJECT T	ITLE			(3) SCOP	Έ	(\$0	000)	(1) START (2) COMPLETE
317-315	Long-Range Stand-Off A	Acquisi	ion Fa	c		4	1,587 S	М	38,	000	Design/Build
315-236	F-35A Armament Researc	ch Fac <i>l</i>	Additio	n (B614)		943 SM	[8,	700	Design/Build
								TOTAL	46,	700	
9. FUTURE	PROJECTS IN NEXT FOUR	PROGR	AM YEAF	RS (FY20	019 - FY20)22)	7 250 0	м	1.0	0.0.0	
721-313	F-35A Student Dormitor F-35A Tech Trng Dining	y II 7 Facil:	itv Add	ition			/,258 S L,329 S	M	10,	000	
171-621	F-35A Integrated Trng	Center	Academ	ics Bld	g	4	1,461 S	М	21,	000	
721-312	Dormitories Replace Do	orm 19				0	9,679 S	М	44,	000	
317-315	Long-Range Stand-OII P	Acquisi	cion Fa	С		4	1,08/ 5	M	9,	600	
					FU	ITURE PF	OJECT	S TOTAL	102	,400	
R&M LINELI								ΤΟΤΑΤ.	7	3	
10. MISSIO	N OR MAJOR FUNCTIONS							IUIAL	,		
Eglin is a	an Air Force Materiel	Command	base s	erving	as the	focal p	point f	or all	Air For	ce arman	ments. Eglin is
responsib. weapons	le for the development The base plans, direct	, acqui s and c	sition,	testi test a	ng, dep. and eva	Loyment	and su	stainme and a	nt of a llied a	ill air-0 ir armau	delivered non-nuclear ment. navigation and
guidance s	systems, and command a	nd cont	rol sys	stems.		ruacion	01 0.0	• 4114 4		uri urinui	mene, navigación ana
11. OUTST	ANDING POLLUTION AND S	SAFETY I	DEFICIEN	ICIES (F	Y 2018-20	022)					
a. Air Po	ollution										
b. Wate	r Pollution										
c Occu	national Safety and Health										
d Other	r Environmental										
a. oniei											
				ουτ	STANDI	NG DEFIC		S TOTAL		0	
DD Form 13	90, JUL 1999			PRE	VIOUS E	DITION IS	S OBSOL	ETE.			

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DA	ГА	2. DATE		
AIR FORCE	(computer ge				d)				
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE					
EGLIN AIR FORCE	BASE			F-35A ARMAMENT RESEARCH FACILITY ADDITION					
EGLIN AFB SITE	# 1 (E	GLIN MAIN AND RESERV	ATION)	(B614)				
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT (COST (\$000)		
27597 315-236 16					.63003		3,700		
		9. C	OST ESTIMA	TES	1 1				
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)		
PRIMARY FACILIT	IES						6,368		
ARMAMENT RESEAT	RCH FA	CILITY ADDITION		SM	943	6,621	(6,243)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS	İ		(125)		
SUPPORTING FACIN	LITIES						1,220		
UTILITIES				LS			(205)		
PAVEMENTS				LS			(361)		
SITE IMPROVEME	NTS			LS			(144)		
DEMOLITION				SM	372	161	(60)		
COMMUNICATIONS				LS			(450)		
SUBTOTAL						-	7,588		
CONTINGENCY	(5.0%))					379		
TOTAL CONTRACT	COST					-	7,968		
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				454		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)			_	304		
TOTAL REQUEST							8,725		
TOTAL REQUEST (1	ROUNDE	D)					8,700		
EQUIPMENT FROM (OTHER 2	APPROPRIATIONS (NON-	ADD)				(1,005)		
10. Descripti	on of	Proposed Construc	tion: Co	nstru	ct an addi	tion to bui	lding 614		
utilizing conv	ventio	nal design and con the facility will h	struction	meth with	ods to acc	commodate the	e mission		
foundation, a	stand	ing seam metal roo	of and str	uctur	al steel f	rame with s	- olit ribbed		
masonry, concr	ete o	r metal ribbed wal	l panels	to ma	tch the ex	isting faci	Lity.		
Project will i	nclud	e fire suppression	n systems,	all	utilities,	pavements,			
communications	s, sit	e improvements, an	nd associa	ted s	upport fac	ilities to p	provide a		
complete and u	iseabl	e facility. Proje	ect includ	es de	molition c	of one build:	ing (372 with the		
DoD Unified Fa	.es wi ncilit	ies Criteria (UFC)	1-200-01	, Gen	eral Build	ling Require	ents and		
UFC 1-200-02,	High	Performance and Su	stainable	Buil	ding Requi	rements. Th	nis project		
will comply wi	th Do	D antiterrorism/fo	orce prote	ction	requireme	ents per UFC	4-010-01.		
Air Conditioni	ng:	30 Tons							
11. Requiremen	nt: 48	715 SM Adequate	e: 47772 S	м	Substandar	d: 0 SM			
PROJECT: F-35A Armament Research Facility Addition, B614 (New Mission)									
REQUIREMENT:	REQUIREMENT: The requirement is for a 2-story 943 square meter building attached								
to building 61	to building 614. There are three main purposes for this building: 1) office space,								
requirement in) storage, and 3) classroom/training room. This project is a new mission								
increase by 30) pers	onnel through the	year 2020	in s	upport of	the F-35A p	rogram.		
The 513th Elec	troni	c Warfare Squadron	n (EWS) ha	s max	imized the	number of	cubicles		
L									

DD FORM 1391, DEC 99 Previous editions are obsolete.

MAY 2017

AIR FORCE	(computer generated)							
3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TITLE						
EGLIN AIR FORCE	BASE	F-35A ARMAMENT RESEARCH FACILI	TY ADDITION					
EGLIN AFB SITE	# 1 (EGLIN MAIN AND RESERVATION)	(B614)						
FLORIDA								

315-236

1. COMPONENT

5. PROGRAM

27597

ITE # 1 (E	GLIN MAIN AND RESERV	ATION)	(B614)		
ELEMENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT COST (\$000)	

1695/FTFA163003

within all offices of B614 and T614 (modular facility) leaving no room to accommodate additional employees.

CURRENT SITUATION: 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.

IMPACT IF NOT PROVIDED: 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. ADDITIONAL: 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.

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.



8,700

						1				
1. COMPONENT		FY 2018 MILITARY	LITARY CONSTRUCTION PROJECT DATA							
AIR FORCE		(comp	uter ge	nerated)						
3. INSTALLATI										
EGLIN AIR FOR	CE BASE		F-35A ARMAMENT RESEA			CILITY				
RESERVATION)	E # I (E	GLIN MAIN AND	ADDITION (B614)							
FLORIDA										
5. PROGRAM EL	6. CATEGORY COD	DE 7. PI	ROJECT NUMBER	8. PROJECT COST (\$000)						
27597	315-236	169	5/FTFA163003	8,700						
12. SUPPLEMEN	TAL DAT	A:	l							
a. Estimate	d Design	n Data:								
(1) Proje	ct to be	accomplished by	design-	build procedu	res					
(2) Basis	:									
(a) St	andard	or Definitive Des	ign -	a		NO				
(D) WI	lere Des.	ign was most rece	nciy USe	ea -		240				
(3) AII O	tner Des	lign Costs				348				
(4) Const		18 FEB								
(5) Const		18 MAR								
(6) Const	ruction	Completion				19 SEP				
(7) Energ	(7) Energy Study/Life-Cycle analysis was/will be performed NO									
b. Equipmen	t assoc:	iated with this p	roject r	provided from	other appropri	ations:				
		-	5 -							
			FIS	Go dm						
EQUIPMEN	LATURE	ROCURING	APPRC APPR OR H	ROPRIATED REQUESTED	(\$000)					
FFE			3400		2019	700				
COMMUNICA	ATIONS E	QUIPMENT	340	0	2019	305				
1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DAT	ГА	2. DATE			
--	--	-------------------	-------------	----------------	-----------------------------	-------------------	---------------	--	--	--
AIR FORCE		(c	omputer gen	erate	d)					
3. INSTALLATION EGLIN AIR FORCE EGLIN AFB SITE FLORIDA	, SITE BASE # 1 (E	AND LOCATION	VATION)	4. PR LONG-	ROJECT TITLE RANGE STAND	: -OFF ACQUISI	TION FACILITY			
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJEC	CT NUMBER	8. PROJECT	COST (\$000)			
64932		317-315	1695,	FTFA1	.63004		38,000			
		9. C	OST ESTIMA	TES						
		ITEM		U/M	OUANTITY	UNIT	COST			
PRIMARY FACILIT	IES				-		26,410			
LONG-RANGE STAN	ND-OFF	FACILITY		SM	4,587	5,645	(25,892)			
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(518)			
SUPPORTING FACIL	LITIES						6,382			
UTILITIES				LS			(1,527)			
PAVEMENTS				LS			(2,684)			
SITE IMPROVEME	NTS			LS			(1,071)			
COMMUNICATIONS				LS			(1,100)			
SUBTOTAL							32,792			
CONTINGENCY	(5.0%))					1,640			
TOTAL CONTRACT (COST						34,431			
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				1,963			
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)				1,312			
TOTAL REQUEST		-)					37,706			
TOTAL REQUEST (I	XOUNDE.		(תתג				38,000			
10 Deggminti		Drepoged Construe				tive compa	(3,130)			
10. Descripti information fa to accommodate foundation, sp metal roof. F pavements, com provide a comp construction i General Buildi Building Requi protection req Air Conditioni 11. Requirement	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									
<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.										
DD FORM 1391,	DEC 9	9 Previou	s editions	s are	obsolete.		Page No.			

1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE							
AIR FORCE	(computer generated)								
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE					
EGLIN AIR FORCE	BASE			LONG-RANGE STAND	-OFF ACQUISITI	ON FACILITY			
EGLIN AFB SITE	# 1 (E	GLIN MAIN AND RESERV	/ATION)						
FLORIDA			1						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	OST (\$000)			
64932		317-315	1695	/FTFA163004	38	,000			
CURRENT SITUAT	ION:	The LRSO program	currently	has 51 militar	y, civilian,	and			
contractor per	sonne	1, and the current	: LRSO fac	ility has room	for 95 person	nnel;			
sufficient to	suppo	rt a near-term ram	np up to T	MRR. However,	the current				
facility will	not b	e sufficient to ho	ouse the 3	00 personnel re	quired to man	nage			
the two requir	ed, n	ear-future, compet	itive TMR	R contracts.					
IMPACT IF NOT	PROVI	DED: Lack of suff	Eicient pe	rsonnel and fac	ilities to ma	anage the			
TMRR contracts	may	jeopardize the sch	neduled LR	SO contract awa	rd. Contract	award			
delay may dire	ctly	impact LRSO initia	al operati	onal capability	. Delaying	contract			
may also impac	t int	erface requirement	ts with de	livery platform	s and the wa	rhead;			
ultimately neg	ative	ly impacting the a	ability of	the United Sta	tes Air Force	e to			
provide airbor	ne st	rategic deterrence	9.						
ADDITIONAL: 1	his p	roject meets appli	icable cri	teria/scope spe	cified in Ai	r Force			
Manual 32-1084	, Fac	ility Requirements	s. An eco	nomic analysis	of reasonable	9			
alternatives e	evalua	ting status quo, 1	renovation	, facility leas	ing and new				
construction w	as ac	complianed. This	analysis	indicated that	new construct	tion is			
Air Base Wing	литсат Васо	Civil Engineer. ()	350) 882-2	876 Facility.	4 587 GM = 1	49 374 SF			
TOTAL MAR CERT	Dabe	TON This food is		ward has athree a	4,507 BM =	"			
available" bas	sis; h	owever, the scope	cy can be of the pr	used by other c oject is based	omponents on on Air Force	an "as			
requirements.									

								<u> </u>	
1. COMPONENT		FY 2018 MILIT	ARY CO	NSTRU	JCTION E	ROJECT	DATA		2. DATE
AIR FORCE		(C	ompute	er gei	lerated)			
3. INSTALLATI	ON AND L	OCATION			4. PROJ	JECT TI	TLE		
EGLIN AIR FOR	CE BASE				LONG-RA	ANGE ST	AND-OFF ACQ	UISI	TION
EGLIN AFB SIT	E # 1 (E	GLIN MAIN AND			FACILI	ΓY			
FLORIDA									
5. PROGRAM EL	EMENT	6. CATEGORY	CODE	7. PF	ROJECT N	UMBER	8. PROJECT	COS	T (\$000)
64932		317-315		169	5/FTFA1	63004		38,0	00
12. SUPPLEMEN	TAL DAT	A:							
a. Estimate	d Design	n Data:							
(1) Proje	ct to be	accomplished	by dea	sign-l	build p	rocedur	es		
(2) Basis	:	_	_	-	_				
(a) St	andard o	or Definitive I	Design	. -					NO
(b) Wh	ere Des	ign Was Most Re	ecentl	y Use	ed -				
(3) All O	ther Des	ign Costs							1,520
(4) Const:	ruction	Contract Award	L					1	8 FEB
(5) Const:	ruction	Start						1	8 MAR
(6) Construction Completion 20 MAR									
(7) Energy Study/Life-Cycle analysis was/will be performed YES									
b. Equipmen	t associ	lated with this	s proj	ect p	rovided	from o	other approp	ria	tions:
			PROCI		ADDDC	FISC	AL YEAR		COST
EQUIPMENT	NOMENCI	LATURE	FROC	OKING	AFFIC	OR RE	QUESTED		(\$000)
FURNITURE	, FIXTU	RES AND EQUIP		3400)	2	2019		2,160
COMMUNICA	TIONS E	OUIPMENT		3400	b	2	2018		990
		z • z • -			-	-			

3. NOT LATER VARD COGATION MONTH AT BOOK BASK FURTH AR 6. AREA CONSTRUCTION LIKE MULTY COMMAND IN REMAINING CONSTRUCTION IN COMMAND A SOP 32-42-10 2000 PT 32-100 2000 PT 32-100 2000 PT 32-100 2000 PT 32-1	1. COMPO	NENT		FY 2018 MILITARY CONSTRUCTION PROGRAM 2. DATE (YYYMMDD)									
Description Cost NORM 0	3. INSTALL	ATION AND LOCATION				4. COM	MAND				5. AREA		
APERSONNEL (1) PERMANENT (2) STUDENTS (3) SUPPORTED (1) TOTAL 0: AS OF 30:-Bap-16 23:5 19:0 441 0 0 0 20:1 13:7 10:0.850 0: NO FY 20:3 29:5 19:0 441 0 0 0 20:1 10:7 10:0.850 7. NVENTORY DATA (20:0)	MACDILL A FLORIDA	IR FORCE BASE				AIR MO	BILITY (COMMAND)		COST	INDEX	
a. AS OF John September Develop J	6. PERSON	INEL	(1)	PERMAN	ENT	(2)	STUDEN	TS	(3)	SUPPOR	TED	TOTAL	
BLOD PY 2019 00 203 100 104 10 0 2014 2013 1010 100 S. NOP PY 2019 00 57.07 3800 3800 3331 1010 80 S. NOP PY 2019 00 57.07 57.	a AS OF	30-Sen-16	295	1967	CIVILIAN 441	OFFICER			2881	3867	CIVILIAN 1379	10.830	
	h END FY	2019	295	1967	441	0	0	0	2881	3867	1379	10,830	
a. TOTAL ACREAGE b. 10/100/100/100/100/100/100/100/100/100/	7. INVENT	ORY DATA (\$000)				Ţ	Ť					.,	
C. AUTORIZATION REQUESTION INTER FROGRAM (FY 2019) C. AUTORIZATION REQUESTED IN THIS PROGRAM (FY 2019) C. AUTORIZATION REQUESTED IN THIS PROGRAM (FY 2019) C. ARAND TOTAL C. REMAINING DEFICIENCY C. DESIGN (FY 2019) C. ACCUUSTED IN THIS PROGRAM (FY 2019) C. ACCUUSTED IN THIS PROGRAM (FY 2019) C. ACCUUSTED IN THIS PROGRAM (FY 2019) C. ACCUUSTED IN THIS PROGRAM (FY 2019) C. ACCUUSTED IN THIS PROGRAM (FY 2019) C. DESIGN (FY 2019) C. ACCUUSTED IN THIS PROGRAM (FY 2019) C. ACCUUSTED IN THIS PROGRAM (FY 2019) C. ACCUUSTED IN THIS PROGRAM (FY 2019) C. ACCUUSTED IN THIS PROGRAM (FY 2019) C. DESIGN (FY 2019)	a. TOTA	L ACREAGE	5,767	-16								2,260,301	
	c. AUTH	IORIZATION NOT YET IN IN	ENTOR	(55,000	
Image: Control of the control of the field provided of th	d. AUTH e. PLAN	IORIZATION REQUESTED IN INED IN NEXT FOUR PROGR	I THIS PI RAM YEA	ROGRAN	l (FY 201 2019-202	(8) 2)						8,100	
d. ukabi U1AL KeluEsiteD IN THIS PROGRAM (*Y2018) A CATEGORY A C	f. REM	AINING DEFICIENCY				-/						138,100	
	g. GRAI	TS REQUESTED IN THIS PR	OGRAM	(FY 2018	3)							2,461,501	
Discrete Discrete <thdiscrete< th=""> Discrete <thd< td=""><td>(4) CODE</td><td>(2) PP</td><td></td><td>TEGOR</td><td>Ý</td><td></td><td></td><td>2) SCOB</td><td>c</td><td>b. C</td><td></td><td>c. DESIGN STATUS</td></thd<></thdiscrete<>	(4) CODE	(2) PP		TEGOR	Ý			2) SCOB	c	b. C		c. DESIGN STATUS	
Image: Image:	610-243	KC135 Beddown OG/MXG H					(1,351	SM	(φL 8,	100	Design/Build	
Image: Second													
a. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022) B. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022) PUTURE PROJECTS TOTAL 0 REMUNELINE PROJECTS TOTAL 0 REMUNELINE PROJECTS TOTAL 0 PUTURE PROJECTS TOTAL 0 PUTURE PROJECTS TOTAL 0 PROJECTS TOTAL 0 PUTURE PROJECTS TOTAL 0 PUTURE PROJECTS TOTAL 0 PUTURE PROJECTS TOTAL 0 PUTURE PROJECTS TOTAL 0 PUTURE PROJECTS TOTAL 0 PUTURE PROJECTS TOTAL 0 POTAL PUTURE PROJECTS TOTAL 0 PUTURE PROJECTS TOTAL 0 PUTURE PROJECTS TOTAL 0 PUTURE PROJECTS TOTAL 0 PUTURE PROJECTS TOTAL 10 PUTURE PROJECTS TOTAL INTENDING POLLUTION AND SAFETY													
S. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022) FUTURE PROJECTS TOTAL 0 REM UNFUNDED REQUIREMENT (SM) 0 REM UNFU													
FUTURE PROJECTS TOTAL 0 RAM UNFUNCED REQUIREMENT (\$M) TOTAL 46.9 TO MSSION OR MAJOR FUNCTIONS Total Advantage Advantage The 6th Air Mobility Wing, MacDill Air Force Base, Florida, is also hore to 28 mission partners; including U.S. Central Command and U.S. Special Operations Community at presence of these two unified commands and other mission partners; unique multi-service community at MacDill, with all branches of the armed forces represented. 11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022) a. Air Pollution b. Water Pollution c. Occupational Safety and Health c. Occupational Safety and Health c. Other Environmental	9 FUTURF	PROJECTS IN NEXT FOUR	PROGR		2S (FY20)19 - FY2	022)		TOTAL	8,	100		
						-					<u>_</u>		
RAM UNFUNDED REQUIREMENT (\$M) TOTAL 46.9 10. MISSION OR MAJOR FUNCTIONS The 6th Air Mobility Wing is comprised of the 6th Operations Group, the 6th Maintenance Group, the 6th Mission Support Group and the 6th Medical Group. In addition to the 6th Air Mobility Wing, MacDill Air Force Base, Florida, is also home to 28 mission partners, including U.S. Central Command and U.S. Special Operations Command. The presence of these two unified commands and other mission partners creates a unique multi-service community at MacDill, with all branches of the armed forces represented. 11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022) a. Air Pollution b. Water Pollution c. Occupational Safety and Health d. Other Environmental						FU	TURE P	ROJECT	STOTAL		0		
The 6th Air Mobility Wing is comprised of the 6th Operations Group, the 6th Maintenance Group, the 6th Mission Support Group and the 6th Medical Group. In addition to the 6th Air Mobility Wing, MacDill Air Force Base, Florida, is also home to 28 mission partners, including U.S. Central Command and U.S. Special Operations Command. The presence of these two unified commands and other mission partners creates a unique multi-service community at MacDill, with all branches of the armed forces represented. 11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022) a. Air Pollution b. Water Pollution c. Occupational Safety and Health d. Other Environmental	R&M UNFU 10. MISSIO	NDED REQUIREMENT (\$M)							TOTAL	46	5.9		
support Group and the stin wedden Group. In addition to the oth ark wolffly windy, waddiff Afr Fordersake, Frontak, is also home to 28 mission partners, including U.S. Central Command and U.S. Special Operations Command. The presence of these two unified commands and other mission partners creates a unique multi-service community at MacDill, with all branches of the armed forces represented. 11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022) a. Air Pollution b. Water Pollution c. Occupational Safety and Health d. Other Environmental	The 6th A	ir Mobility Wing is co	mprised	of the	e 6th Op	peratio	ns Group	p, the	6th Mai	ntenanc	e Group	, the 6th Mission	
presence of these two unified commands and other mission partners creates a unique multi-service community at MacDill, with all branches of the armed forces represented. 11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022) a. Air Pollution b. Water Pollution c. Occupational Safety and Health d. Other Environmental	is also h	oroup and the 6th Medic nome to 28 mission part	al Grou ners, i	p. in a ncludir	idaitio 1g U.S.	n to the Centra	e 6th A: l Comman	ir Mobi nd and	U.S. Sp	ng, Mac ecial C	peratio	r Force Base, Florida, ns Command. The	
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022) a. Air Pollution b. Water Pollution c. Occupational Safety and Health d. Other Environmental	presence MacDill,	of these two unified c with all branches of t	ommands he arme	and ot d force	her mis s repre	ssion p esented	artners	create	s a uni	que mul	ti-serv	ice community at	
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022) a. Air Pollution b. Water Pollution c. Occupational Safety and Health d. Other Environmental	,				1								
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022) a. Air Pollution b. Water Pollution c. Occupational Safety and Health d. Other Environmental													
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022) a. Air Pollution b. Water Pollution c. Occupational Safety and Health d. Other Environmental													
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022) a. Air Pollution b. Water Pollution c. Occupational Safety and Health d. Other Environmental													
a. Air Pollution b. Water Pollution c. Occupational Safety and Health d. Other Environmental	11. OUTST	ANDING POLLUTION AND S	AFETY [DEFICIEN	ICIES (F	Y 2018-2	022)						
a. Air Pollution b. Water Pollution c. Occupational Safety and Health d. Other Environmental													
b. Water Pollution c. Occupational Safety and Health d. Other Environmental	a. Air P	ollution											
b. Water Pollution c. Occupational Safety and Health d. Other Environmental													
c. Occupational Safety and Health d. Other Environmental	h Wate	ar Pollution											
c. Occupational Safety and Health d. Other Environmental OUTSTANDING DEFICIENCIES TOTAL	D. Wate												
c. Occupational Safety and Health d. Other Environmental OUTSTANDING DEFICIENCIES TOTAL													
	c. Occı	upational Safety and Health											
	4 0464												
	u. Othe												
					0.17		אה חבריי		S TOTA		0		

MAY 2017

1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE		((computer gen	erate	d)					
3. INSTALLATION	, SITE	E AND LOCATION		4. PH	ROJECT TITLE	1	•			
MACDILL AIR FOR	CE BAS	SE		KC135	5 BEDDOWN OG	/MXG HQ				
MACDILLAFB SITE	# 1									
FLORIDA		1								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	CT NUMBER	8. PROJECT	COST (\$000)					
41976 610-243 252:					.53711		8,100			
		9. (COST ESTIMA	TES		1				
						UNIT	COST			
		ITEM		U/M	QUANTITY		(\$000)			
PRIMARY FACILIT	IES						6,039			
COMMAND HEADQU	ARTERS	FACILITY		SM	1,351	4,385	(5,925)			
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(114)			
SUPPORTING FACIN	LITIES						987			
PAVEMENT				LS			(467)			
SITE IMPROVEME	NTS			LS		İ	(204)			
UTILITIES				LS			(316)			
SUBTOTAL							7,026			
CONTINGENCY	(5.0%)					351			
TOTAL CONTRACT (COST						7,377			
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				420			
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF	SUBTOTAL)				281			
TOTAL REQUEST							8,078			
TOTAL REQUEST (1	TOTAL REQUEST (ROUNDED)						8,100			
EQUIPMENT FROM (QUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						1,100			
10. Descripti	on of	Proposed Constru	ction: Co	nstru	ct a 14.45	8 square fe	et /1.351			

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.

Air Conditioning: 70 Tons

11. Requirement: 1351 SM Adequate: 0 SM Substandard: 0 SM <u>PROJECT:</u> KC-135 Beddown Operations Group/Maintenance Group Headquarters (New Mission)

<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

DD FORM 1391, DEC 99

Previous editions are obsolete.

1. COMPONENT	FY 2018 MILIT	ſA	2. DATE						
AIR FORCE	(computer generated)								
3. INSTALLATION, S	A, SITE AND LOCATION 4. PROJECT TITLE								
MACDILL AIR FORCE	LL AIR FORCE BASE KC135 BEDDOWN OG/MXG HQ								
MACDILLAFB SITE # 3	DILLAFB SITE # 1								
FLORIDA									
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)				
41976 610-243 2521/NVZR153711 8,100									
related command activities. Squadron operations management support,									

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.

<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.

<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.

ADDITIONAL: 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.

JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.

1. COMPONENT		FY 2018 MIL	ITARY C	ONSTRU	CTION	PROJECT	DA:	ГА	2	. DATE
AIR FORCE		0.03	(compact	er gen		a)				
3. INSTALLATI	ON AND I	JOCATION			4. PR	OJECT TI	TLE	(
MACDILL AIR F	ORCE BAS	SE			KC135	BEDDOWN	OG	/MXG HQ		
FLORIDA	16 # 1									
5. PROGRAM EL	EMENT	6. CATEGOR	Y CODE	7. PR	OJECT	NUMBER	8.	PROJECT	COST	(\$000)
41976		610-2	43	2521	L/NVZR	153711			8,100	1
12. SUPPLEMEN	ITAL DAT.	A:								
a. Estimate	d Design	n Data:								
(1) Proje	ct to be	accomplishe	d by de	sign-b	ouild	procedur	es			
(2) Basis	:									
(a) St (b) Wi	andard here Des	or Definitiv ign Was Most	e Design Recent:	n - ly Use	d -					YES
(3) All O	ther Des	sign Costs								281
(4) Const	ruction	Contract Awa	ırd						18	AUG
(5) Const	ruction	Start							18	SEP
(6) Const	ruction	Completion							20	SEP
(7) Energ	y Study/	'Life-Cycle a	nalysis	was/w	vill b	e perfor	med			YES
EQUIPMEN	NOMENC	LATURE	PROC	URING	APPRC	APPRO OR RE	PRI QUE	ATED STED		COST (\$000)
FURNITUR	2			3400)	2	2019)		300
AUDIO/VI:	SUAL			3400)	2	2019)		100
C4I REQUI	IREMENTS			3400)	2	2019)		600

1. COMPO	NENT		FY 2018 MILITARY CONSTRUCTION PROGRAM 2. DATE (YYYMMDD)									
3. INSTALI	ATION AND LOCATION		4. COMMAND 5. AREA C									
ROBINS AI GEORGIA	R FORCE BASE				AIR FO	RCE MATI	ERIAL C	OMMAND		COST	INDEX	
6. PERSO	INEL	(1)	PERMAN	ENT	(2)	STUDEN	ITS	(3)	SUPPOR	TED	TOTAL	
2 AS OF	30-500-16	1609	7059	1/052	OFFICER	ENLISTED		OFFICER	2 CENLISTED		23 713	
A. AS OF	2019	1566	6979	14952	0	13	0	2	2	70	23,713	
7. INVENT	ORY DATA (\$000)	1300	0970	14000	0	15	0	2	2	70	23,472	
a. TOTA		8,722	1.0								1 005 400	
b. INVE	NTORY TOTAL AS OF IORIZATION NOT YET IN IN	VENTOR	-16 (1,905,428	
d. AUTH	IORIZATION REQUESTED I			I (FY 201	(8)						9,800	
e. PLAN f. REM	INED IN NEXT FOUR PROG AINING DEFICIENCY	RAM YEA	RS (FY2	2019-202	2)						329,000	
g. GRA											2,256,228	
8. PROJEC	a. CATEGORY b. COST									COST	c. DESIGN STATUS	
(1) CODE	(2) PR	OJECT	ITLE	Facilit		(3) SCOP	E	(\$0	000)	(1) START (2) COMPLETE	
/30-832				Facilit	У		1,324	SM	9,	800	Design/Bulla	
								TOTAL	9,	800		
9. FUIURE	FROJECTS IN NEXT FOUR	FRUGR		(J (F 120	19-1120	JZZ)						
					FU	JTURE PF	ROJECT	S TOTAL		0		
R&M UNFU	INDED REQUIREMENT (\$M)							TOTAL	2	.2		
10. MISSIC	ON OR MAJOR FUNCTIONS											
Warner Ro systems i	bins Air Logistics Cer ncluding F-15, C-130,	ter is C-5, C-	respons 141, an	ible fo d U-2 a	or logi: aircraf	stics ma t, helio	anageme copters	nt, sup , missi	port, a les and	ınd depo l remote	t-level maintenance of ly piloted vehicles; an	
air base	wing; an air control w	ing; HQ	Air Fo	rce Rea	serve Co	ommand;	an Air	Mobili	ty Comm	and air	refueling group with	
National	.rcraft; an ACC combat Guard bomb wing with E	communı 8-1B air	cations craft;	and an	; a spec Air Fo:	cial ope rce reci	eration ruiting	group.	t with	EC-13/D	aircraft; an Air	
11. OUTST	ANDING POLLUTION AND	SAFETY I	DEFICIEN	ICIES (F	Y 2018-20	022)						
a. Air P	ollution											
b. Wate	er Pollution											
c Occi	unational Safety and Health											
0.000	apational carety and nouth											
d. Othe	er Environmental											
				OUT	ISTANDI	NG DEFIC		S TOTAL		0		

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DAT	ΓA	2. DATE		
AIR FORCE		(c	omputer ger	erate	d)				
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE		1		
ROBINS AIR FORC	E BASE	1		COMMERCIAL VEHICLE VISITOR CONTROL					
ROBINS AIR FORC GEORGIA	E BASE	SITE # 1		FACII	ITY				
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
27576		730-832	3219,	/UHHZ1	.63000		9,800		
		9. 0	OST ESTIMA	TES					
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)		
PRIMARY FACILIT	IES						1,730		
OVERHEAD PROTE	CTION	(145-921)		SM	1,250	973	(1,216)		
VISITOR CONTROL	L FACI	LITY (730-832)		SM	74	6,488	(480)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(34)		
SUPPORTING FACIN	LITIES						6,778		
UTILITIES				LS			(655)		
COMMUNICATIONS				LS			(200)		
DEMOLITION				SM	2,812	222	(624)		
SITE IMPROVEME	NTS			LS			(5,299)		
SUBTOTAL							8,509		
CONTINGENCY	(5.0%))					425		
TOTAL CONTRACT (COST						8,934		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				509		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				340		
TOTAL REQUEST							9,784		
TOTAL REQUEST (1	ROUNDE	D)					9,800		
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				(1,514)		
10. Descripti inspection sta utilizing conv of the facilit masonry walls, pavement, park communications complete and u 2,740 SM. Fac the DoD Unifie and UFC 1-200-	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								
project will of 101-01.	omply	with DoD antiter	rorism/for	ce pr	otection r	equirements	s per UFC 4-		
Air Conditioning: 3 Tons									
11. Requirement: 1324 SM Adequate: 0 SM Substandard: 2812 SM									
<u>PROJECT:</u> Commercial Vehicle Visitor Control Facility (Current Mission) <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									

DD FORM 1391, DEC 99

Previous editions are obsolete.

1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE ROBINS AIR FORCE BASE COMMERCIAL VEHICLE VISITOR CONTROL ROBINS AIR FORCE BASE SITE # 1 FACILITY GEORGIA 5. PROGRAM ELEMENT 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) CATEGORY CODE 27576 730-832 3219/UHHZ163000 9,800

<u>CURRENT SITUATION:</u> 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.

<u>IMPACT IF NOT PROVIDED</u>: 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.

ADDITIONAL: 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.

JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.

1. COMPONENT AIR FORCE	L. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated)									
3. INSTALLATI ROBINS AIR FO ROBINS AIR FO GEORGIA	ON AND L RCE BASE RCE BASE	OCATION : : SITE # 1		4. PRO COMMER FACILI	JECT TI CIAL VE TY	TLE HICLE VISITOR	CONTROL			
5. PROGRAM EL	EMENT	6. CATEGORY (CODE 7.1	PROJECT 1	NUMBER	8. PROJECT CO	OST (\$000)			
27576		730-832	32	19/UHHZ1	63000	9,	800			
12. SUPPLEMEN	TAL DAT	A:	I			I				
a. Estimate	d Design	Data:								
(1) Proje	ct to be	accomplished b	oy design	-build p	rocedur	es				
(2) Basis (a) St (b) Wi	: andard o here Des:	or Definitive D ign Was Most Re	esign - cently Us	sed -			NO			
(3) All O	ther Des	ign Costs					392			
(4) Const	ruction	Contract Award					18 AUG			
(5) Const	ruction	Start					18 SEP			
(6) Const	ruction	Completion					20 MAR			
(7) Energ	(7) Energy Study/Life-Cycle analysis was/will be performed YES									
EQUIPMENI	nomenci	LATURE	PROCURIN	G APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED	COST (\$000)			
CAMERAS/N	IONITOR		34	00		20	62			
TELEPHONE	E EQUIPM	ENT	34	00		20	12			
PORTABLE	X-RAY,	RADIATION EQ	34	00		20	190			
BACK SCAT	TTER RAD	AR EQUIPMENT	30	80		20	1,250			

1. COMPONENT	FY 2	FY 2018 MILITARY CONSTRUCTION PROGRAM							2. DATE (YYYMMDD)		
3. INSTALLATION AND LOCATION				4. COM	MAND				5. AREA		
MCCONNELL AIR FORCE BASE				AIR MO	BILITY (COMMAND			COST		
6. PERSONNEL	(1)	PERMAN	ENT	(2) STUDE	NTS	(3)	SUPPOR	TED		
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF 30-Sep-16	367	2498	414	0	0	0	269	1675	474	5,697	
b. END FY 2022	367	2498	414	0	0	0	269	1673	451	5,672	
a. TOTAL ACREAGE	3,615										
b. INVENTORY TOTAL AS OF	30-Sep	-16								1,587,484	
d. AUTHORIZATION REQUESTED IN	THIS PI		I (FY 201	8)						17,500	
e. PLANNED IN NEXT FOUR PROGR	AM YEA	RS (FY 2	2019-202	2)						0	
g. GRAND TOTAL										1,642,704	
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)											
(1) CODE (2) PR	a. C. DJECT T	ATEGOR	Y		1	(3) SCOPE	=	b. С (\$0	000)	(1) START (2) COMPLETE	
171-475 COMBAT ARMS FACILITY					3,849	SM	17,	500	Design / Build		
								<u> </u>			
				TOTAL	17	500					
9. FUTURE PROJECTS IN NEXT FOUR	PROGR	AM YEAF	RS (FY20	19 - FY2	022)		101/12	,			
				F	UTURE	ROJECT	S TOTAL		0		
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	0	.4		
McConnell Air Force Base is the wing's primary mission is to pr To do this the wing is charged command objectives in any part of	host t ovide G to deve of the	o the 2 lobal R lop and world,	2nd Ain Reach by I mainta in any	r Refue 7 condu ain the condit:	ling Win cting a: capabil ion or o	ng (ARW) ir refue lity to climate.	and ho ling an conduct	me to t d airli air re	he 184 . ft when fueling	ARW and 931 ARG. The and wherever needed. operations supporting	
11. OUTSTANDING POLLUTION AND S	AFETY [DEFICIEN	ICIES (F	Y 2018-20	022)						
a. Air Pollution											
b. Water Pollution											
c. Occupational Safety and Health											
d. Other Environmental											
			OL	TSTANE	ING DEF		S TOTAL		0		

DD Form 1390, JUL 1999

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT						2. I	DATE
AIR FORCE	FY 2018 MILITARY CO	ONSTRUCTIO	ON P	ROJEC	T DATA	4	
3. INSTALLATION AND I	LOCATION	4. PROJECT T	PROJECT TITLE:				
MCCONNELL AIR FO	DRCE BASE, KANSAS	COMBAT AF	RMS	FACILI	ГҮ		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT N	UMBE	R	8. PROJ	ECT COS	ST (\$000)
41976	171-475	PRQEO)5515	5		17	,500
	9. CO	ST ESTIMATES					
	ITEM		U/M	QUANT	ITY	UNIT COST	COST (\$000)
PRIMARY FACILIT	IES						13,444
INDOOR SMALL A	RMS RANGE (171-475)		SM	2,38	86	3,459	(8,253)
COMBAT ARMS T	RAINING & MAINTENANO	CE (171-476)	SM	1,42	26	3,421	(4,878)
RANGE TARGET F	REPAIR & STORAGE (171-4	473)	SM	3	37	1,314	(49)
SUSTAINABILITY	AND ENERGY MEASURE	S	LS				(264)
SUPPORTING FACE	LITIES						1,708
UTILITIES			LS				(334)
SITE IMPROVEME	INTS		LS				(281)
PAVEMENTS			LS				(176)
DEMOLITION			SM	2,26	6	388	(879)
COMMUNICATION	NS		LS				<u>(38)</u>
SUBTOTAL							15,152
CONTINGENCY (5	%)						<u>(757)</u>
TOTAL CONTRACT	COST						15,909
SUPERVISION, INS	SPECTION AND OVERHEA	AD (5.7%)					(907)
DESIGN/BUILD – I	DESIGN COST (4.0% OF SU	BTOTAL)					<u>(606)</u>
TOTAL REQUEST							17,422
TOTAL REQUEST (F	KOUNDED)						17,500
EQUIPMENT FROM C	THER APPROPRIATIONS	(NON-ADD)					(773)
10. DESCRIPTION O	F PROPOSED CONSTRUCT	TION:					
Construct a 28-position	n, 25-meter, fully contained, in	ndoor firing rai	nge, c	ombat a	rms faci	lity and 1	range target
facility. Construction w	vill include concrete footings,	floor, side wal	ls and	l roof as	well as	overhead	d baffles, bullet
trap and a vacuum syst	em for lead dust collection. T	he project inclu	ides u	itilities,	site imp	rovemen	ts, pavements,
communications infras	tructure and other supporting	Work necessar	y to n	lake con	npiete ar	a useab	tion in accordance
with the DoD Unified 1	Encilition Critoria (LEC) 1-20	0.01 General 1	signe Ruildi	ing Poor	iromont	s and LU	$C_{1,200,02}$
High Performance and	Sustainable Building Require	ements This n	roiect	will cor	nnlv wit	h DoD a	nti-
terrorism/force protecti	ion requirements per UFC 4-0)10-01.	lojeet	will cor	npiy wit		unu
Air Conditioning: 0 To	ons						
11. REQUIREMENT: 3,8	ADEQ	UATE: 0 SM			SUBST	ANDARD	: 2,266 SM
PROJECT: Combat Ar	ms Facility (Current Mission))		<i></i>		.1.1 6	
<u>REQUIREMENT</u> : The	22nd Security Forces Squad	ron, Combat Ai	rms se	ection is	respons	ible for j	providing
weapons training for pe	ersonnel assigned to MicConnel	the Surface De	ing pr	Tone (S	DZ) cor	isses a to	vironmental
problems and mitigates	s lost training time due to poor	r weather The	nrope	Zone (S. Sed rand	D_{L} , COI		odate both
frangible and lead amm	unition. Engineering Technic	cal Letter (ETI) 11_	18 mand	ates full	contain	ment and a
desired range length at	or close to the sight zero for t	the weapons be	ing tr	ained or		Jonum	and a a
DD Form 1391, DEC 99	(E-Form) PREVIOUS	S EDITIONS MAY BE	USED II	NTERNALLY	(PAGE NO.1

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

1023672

5. PROJECT NUMBER

<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.

<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.

<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. 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			2. DATE	
AIR FORCE	FY 2018 MILITARY CO	ONSTRUCTION PROJECT	Г ДАТА	
3. INSTALLATION AND	D LOCATION			
TRAVIS AIR FORCE	E BASE, CALIFORNIA			
4. PROJECT TITLE			5. PROJECT NUMBER	
KC-46A ADAL PAR	KING APRON/HYDRANT FU	JEL SYSTEM	1023672	
12. SUPPLEMENTAa. Estimated Design(1) Project to be	AL DATA: n Data: e accomplished by design-build j	procedures		
 (2) Basis: (a) Standar (b) Where I (3) All Other Design (1996) 	d or Definitive Design – Design Was Most Recently Used esign Costs	d –		YES Buckley \$700
(4) Construction	1 Contract Award			18 AUG
(5) Construction	1 Start			18 SEP
(6) Construction	1 Completion			20 MAR
b. Equipment assoc EQUIPMENT NO COMMUNICATIO FURNITURE, FIX WEAPONS SIMU	iated with this project provided MENCLATURE ONS EQUIPMENT TURES, & EQUIPMENT LATOR	from other appropriations: PROCURING APPROPRIATION 3400 3400 3080	FISCAL YEAR APPROPRIATED OR REQUESTED 2019 2019 2019	COST (\$000) 100 408 265

1. COMPO	. COMPONENT FY 2018 MILITARY CONSTRUCTION PROGRA								GRAM	2. DATE	(YYYMMDD)
3. INSTALL	ATION AND LOCATION				4. COM	MAND				5. AREA	
JOINT BAS	E ANDREWS				ATR FO	RCE DIS	TRICT C	F WASHT	NGTON	COST	INDEX
MARYLAND		(4) [(2)	STUDEN		(2)		TED	1.01
0. FERSON	INEL	OFFICER			(2) OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED		TOTAL
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
7. INVENTO	DRY DATA (\$000)										,
a. TOTA	LACREAGE	7,770									
b. INVE	NTORY TOTAL AS OF	30-Sep	-16								3,165,364
d. AUTH	ORIZATION REQUESTED IN	THIS PE		I (FY 201	8)						271,500
e. PLAN	NED IN NEXT FOUR PROGR	RAM YEA	RS (FY 2	2019-202	2)						37,000
f. REMA	INING DEFICIENCY										215,000 3,731,864
8. PROJEC	TS REQUESTED IN THIS PR	OGRAM	(FY 2018	3)							-,,
		a. CA	TEGOR	(b. C	OST	c. DESIGN STATUS
911-146 PAR Land Acquisition						(3) SCOPE (3) 45 HA 17,				<i>00)</i> 500	(1) START (2) COMPLETE
211-111	Presidential Aircraft	Recap (Complex			1	L11,280	SM	254	,000	07/16 09/17
		PROCE			10 EV2	1001		TOTAL	271	,500	
R&M LINEL					FU	TURE PF	ROJECT	S TOTAL	37,	000	
10. MISSIO	N OR MAJOR FUNCTIONS							IUIAL	20		
Andrews A reaction Forces, a	ir Force base provides rotary-wing airlift fo nd a secure installati	contin r the n on and	gency r ational robust	capita infrast	e capab: al regio tructure	ility c on, comb e to sup	ritical pat-rea pport b	to Nat dy Airm ase org	ional S en to A anizati	ecurity ir and ons.	to include emergency Space Expeditionary
'' .											
a. Air P	ollution										
b. Wate	r Pollution										
c. Occu	pational Safety and Health										
d. Othe	r Environmental										
				ουτ	ISTANDI	NG DEFIC		S TOTAL		0	
,											

1. COMPONENT		FY 2018 MIL	ITARY CONSTRU	JCTION	PROJECT DA	ТА	2. DATE		
AIR FORCE			(computer ger	nerate	d)				
3. INSTALLATION	, SIT	E AND LOCATION		4. PROJECT TITLE					
JOINT BASE ANDR	EWS-N.	AVAL AIR FACILITY W	VASHINGTON	PAR I	LAND ACQUIS	ITION			
ANDREWS SITE # MARYLAND	1								
5. PROGRAM ELEM	IENT	6. CATEGORY CODE	7. RPSUID/P	PSUID/PROJECT NUMBER 8. PROJECT			COST (\$000)		
41319	41319 911-146 1377/.				3002A		17,500		
		9.	COST ESTIM	ATES		•			
						UNIT	COST		
ITEM				U/M	QUANTITY		(\$000)		
PRIMARY FACILIT	IES						15,930		
LAND ACQUISITI	ON (91	11-146)		LS			(9,401)		
LAND EASEMENT	(921-1	L77)		LS			(6,529)		
SUPPORTING FACIL	LITIES	5					878		
SECURITY FENCE				LS			(272)		
CLEAR AND GRUB				LS			(356)		
LAND SURVEYS A	ND TIT	LE SEARCH		LS			(250)		
SUBTOTAL							16,808		
CONTINGENCY	(2	2.0%)					336		
TOTAL CONTRACT (COST						17,144		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(2.0%)				343		
TOTAL REQUEST							17,487		
TOTAL REQUEST (1	ROUNDE	D)					17,500		

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 & 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.

Air Conditioning: 0 Tons

11. Requirement: 45 HA Adequate: 0 HA Substandard: 0 HA

PROJECT: Land Acquisition/Easement for HCP and EOD Proficiency Range (New Mission) 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

DD FORM 1391, DEC 99

Previous editions are obsolete.

1. COMPONENT	FY 2018 MILITARY CONSTRU	2. DATE				
AIR FORCE	(computer ger					
3. INSTALLATION JOINT BASE ANDR ANDREWS SITE # MARYLAND	, SITE AND LOCATION EWS-NAVAL AIR FACILITY WASHINGTON 1	4. PROJECT TITLE PAR LAND ACQUISITION				
5. PROGRAM ELEM	ENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000					

1377/AJXF163002A

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.

911-146

CURRENT SITUATION: 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/embarkation. 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.

IMPACT IF NOT PROVIDED: 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. ADDITIONAL: 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. 11th Wing Base Civil Engineer: 301-981-7281. PAR Land Acquisition/Easement: 45.33 HA = 112.01 Acres.

HISTORY OF BASE BOUNDARY: N/A

LONG TERM REAL ESTATE: Land acquisition estimated costs are based on an Air Force real estate survey of comparable land parcels to obtain the most current market values.

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.

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41319

Page No.

17,500

1. COMPONENTFY 2018 MILITARY CONSTRUCTION PROJECT DATA2. DATEAIR FORCE(computer generated)							
3. INSTALLATI	ON AND I	OCATION		4 PROTECT	PTTT.R		
JOINT BASE AN WASHINGTON	DREWS-NA	VAL AIR FACILITY		PAR LAND AC	QUISITION		
ANDREWS SITE	# 1						
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)	
41319		911-146	1377/2	AJXF163002A	17,	500	
12. SUPPLEMEN	TAL DATA	A:					
a. Estimate	d Design	n Data:					
(1) Statu	s:	m Chambad			01	FFD 10	
(a) Da (b) Pa (c) Pe	rametric rcent Co	n Started C Cost Estimates use omplete as of 01 JAN	ed to de N 2017	evelop costs	01	-FFB-18	
(d) Da	te 35% I	Designed			01	-FEB-18	
(e) Da	te Desig	gn Complete			01	-FEB-18	
(f) En	ergy Stu	udy/Life-Cycle analy	ysis was	s/will be per	formed	NO	
(2) Basis	:						
(a) St (b) Wh	andard o ere Desi	or Definitive Desigr ign Was Most Recent]	n - Ly Used	-		NO	
(3) Total	Cost (c	(a) = (a) + (b) or (c)	l) + (e)):		(\$000)	
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		0	
(b) Al	1 Other	Design Costs				0	
(C) TO (d) Co	tal ntract					0	
(e) In	-house					0	
(4) Const	ruction	Contract Award				18 FEB	
(5) Const	ruction	Start				18 FEB	
(6) Const	ruction	Completion				18 FEB	
b. Equipmen N/A	t associ	iated with this prog	ject pro	ovided from c	ther appropri	ations:	

1. COMPONENT		FY 2018 MILI	TARY CONSTRU	JCTION	PROJECT DA	ТА	2. DATE
AIR FORCE		(computer ger	nerate	d)		
3. INSTALLATION	, SITI	E AND LOCATION		4. PR	OJECT TITL	3	I
JOINT BASE ANDR	EWS-NZ	AVAL AIR FACILITY W	ASHINGTON	PRESI	DENTIAL AIN	CRAFT RECAPI	TALIZATION
ANDREWS SITE #	1			COMPL	EX		
MARYLAND		1					
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT	NUMBER	8. PROJECT	COST (\$000)
41319 211-111 1377					3021	2	54,000
		9.	COST ESTIM	ATES			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILIT	ES						161,444
LARGE AIRCRAFT	HANGA	AR (211-111)		SM	21,328	4,797	(102,316)
ADMINISTRATIVE	OFFIC	CE SPACE (610-243)		SM	5,946	3,442	(20,465)
WAREHOUSE (COM	BS) (4	42-758)		SM	7,276	2,206	(16,048)
ENTRY CONTROL	FACILI	ITY (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							(3,165)
SUPPORTING FACILITIES							67,430
HAZMAT STORAGE BLDG							(774)
FLAMMABLE STORAGE BLDG							(160)
COVERED AGE STORAGE							(955)
UNCOVERED AGE YARD							(32)
UTILITIES							(18,474)
PAVEMENTS				LS			(3,077)
SITE IMPROVEME	NTS			LS			(19,250)
AT/FP SECURITY	INFRA	ASTRUCTURE		LS			(7,266)
WETLAND/STREAM	MITIC	JATION		LS			(1,254)
TYPE III AIRCR	AFT RE	FUELING SYSTEM		LS			(10,051)
FUEL RECEIPT T	RANSFE	ER LINE		LS			(1,067)
GOLF COURSE MI	FIGATI	ION		LS			(500)
PRIVATIZED UTI	LITY C	CONNECTION FEE		LS			(1,195)
EMERGENCY GENE	RATORS	S AND BACK UP POWER		LS			(3,375)
SUBTOTAL							228,874
CONTINGENCY	(5	.0%)					11,444
TOTAL CONTRACT (COST						240,318
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				13,698
TOTAL REQUEST							254,016
TOTAL REQUEST (F	ROUNDE	D)					254,000
EQUIPMENT FROM (THER	APPROPRIATIONS (NON	I-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 conn	ectic	ons and necessary	modificati	ons to	o existing	infrastruc	ture,

Page No.

engine run-up pads with blast deflectors, and type III hydrant refueling system

1. COMPONENT	FY 2018 MIL	FY 2018 MILITARY CONSTRUCTION PROJECT DATA						
AIR FORCE	(computer generated)							
3. INSTALLATION JOINT BASE ANDR ANDREWS SITE # MARYLAND	, SITE AND LOCATION EWS-NAVAL AIR FACILITY W 1	4. PROJECT TITLE PRESIDENTIAL AIRCRAFT RECAPITALIZATION COMPLEX						
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CC	OST (\$000)			

1377/AJXF173021

211-111

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 & 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.

Air Conditioning: 392 Tons

41319

11. Requirement: 34937 SM Adequate: 0 SM Substandard: 17238 SM PROJECT: Presidential Aircraft Recapitalization (PAR) Complex. (New Mission) 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.

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.

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

254,000

1. COMPONENT	FY 2018 MILITARY C	TA 2. DATE			
AIR FORCE	(comput				
3. INSTALLATION JOINT BASE ANDR ANDREWS SITE # MARYLAND	, SITE AND LOCATION EWS-NAVAL AIR FACILITY WASHING 1	4. PROJECT TITLE TON PRESIDENTIAL AIR COMPLEX	4. PROJECT TITLE PRESIDENTIAL AIRCRAFT RECAPITALIZATION COMPLEX		
5. PROGRAM ELEM	ENT 6. CATEGORY CODE 7. RPS	JUID/PROJECT NUMBER	8. PROJECT COST (\$000)		

1377/AJXF173021

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 & maintenance costs for the aircraft, current hangar and PAG mission support facilities.

211-111

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. 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.

41319

254,000

1. COMPONENT		FY 2018 MILITAR	Y CC	NSTRUC	TION PRO	JECT	DATA	2. DATE		
AIR FORCE		(com	pute	r gene	rated)					
3. INSTALLATI	ON AND LO	OCATION			4. PROJ	ECT 1	TITLE			
JOINT BASE AN WASHINGTON ANDREWS SITE	IDREWS-NA	VAL AIR FACILITY	Y		PRESIDE RECAPIT	NTIAI ALIZA	L AIRCRAFT ATION COMPLEX			
MARYLAND							Γ			
5. PROGRAM EL	EMENT	6. CATEGORY CO	DE	7. PRO	JECT NUM	BER	8. PROJECT CO	OST (\$000)		
41319		211-111		1377/	AJXF1730)21	254	,000		
12. SUPPLEMEN	ITAL DATA	:								
a. Estimate	ed Design	Data:								
(1) Statu	15:									
(1) Da	ate Desig	n Started					01	-JUL-16		
(b) Parametric Cost Estimates used to develop costs YES										
* (C) Pe	* (c) Percent Complete as of 01 JAN 2017 15%									
* (d) Da	* (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) St	andard o	r Definitive Dea	sign	-				NO		
(b) Where Design Was Most Recently Used -										
(2) Total Cost (a) = (a) + (b) and (d) + (a) = (c) + (b) and (d) = (c) + (c)										
(3) IOLAI (a) Pr	oduction	f = (a) + (b) O	r (u neci) + (e) ficatio	ns			(\$000)		
(b) Al	ll Other	Design Costs	PCCT	LICUCIO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			7,620		
(c) To	otal	J						22,860		
(d) Co	ontract							19,050		
(e) Ir	n-house							3,810		
(4) Const	ruction (Contract Award						18 FEB		
(5) Const	ruction	Start						18 MAR		
(6) Const	ruction	Completion						20 MAR		
* Indicat	es compl	etion of Project	t De	finitio	on with	Param	etric Cost Es	timate		
which i	ls compar	able to traditio	onal	35% de	esign to	ensu	re valid scop	e,		
cost an	nd execut	ability.								
b. Equipmer	nt associ	ated with this p	proj	ect pro	ovided f:	rom c	ther appropri	ations:		
EQUIPMEN	T NOMENCI	ATURE	PF APPI	ROCURIN	g 2 Ion (FISCZ APPRO OR RE	AL YEAR PRIATED QUESTED	COST (\$000)		
SECURITY	EQUIPMEN	IT/SYSTEMS		3080		2	020	14,800		
WAREHOUS	E EQUIPME	ENT		3080		2	019	10,000		
PERSONNE	L LIFT SY	STEM		3080		2	019	7,000		
COMMUNIC	ATIONS EC	DUIPMENT		3080		2	020	4,300		
FIIRNTTIR	ע <u>ה הייה</u> אמוויעדא א	S AND EOMT		3400		2	021	2,000		
AUDTOVICE				3000		2	020	4 000		
AUDIOVIS	OAL SISTE	- 		3080			020	4,000		
OTHER PRO	OCUREMENI	ſ		3080		2	020	9,000		

DD FORM 1391, DEC 99

Previous editions are obsolete.



1. COMPONENT		FY 20	18 MIL	ITARY (CONSTR	UCTIO	N PRO	GRAM	2. DATE	(YYYMMDD)
3. INSTALLATION AND LOCATION				4. COM	MAND				5. AREA	CONSTRUCTION
HANSCOM AIR FORCE BASE				Air Fo	rce Mate	eriel C	ommand		COST	INDEX
6. PERSONNEL	(1)	PERMAN	ENT	(2)	STUDEN	TS	(3)	SUPPOR	TED	1.20
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL
a. AS OF 30-Sep-16	551	305	1825				75	56	28	2,840
b. END FY 2022	554	302	1771				71	55	28	2,781
7. INVENTORY DATA (\$000) a TOTAL ACREAGE	846									
b. INVENTORY TOTAL AS OF	30-Sep	-16								2,062,882
c. AUTHORIZATION NOT YET IN IN	ENTOR			0						516,700
e. PLANNED IN NEXT FOUR PROGR		RS (FY 2	2019-202	8) 2)						441,000
f. REMAINING DEFICIENCY		1		1						128,200
g. GRAND TOTAL 8 PROJECTS REQUESTED IN THIS PR	OGRAM	(FY 2018	2)							3,601,182
	a. CA	TEGOR	ſ					b. C	OST	c. DESIGN STATUS
(1) CODE (2) PR	OJECT T	ITLE			(3) SCOP	E	(\$0	00)	(1) START (2) COMPLETE
730-832 Vandenberg Gate Comple	x					481	SM	±±,	400	Design/Bulla
							TOTAL	11	400	
9. FUTURE PROJECTS IN NEXT FOUR	PROGR	AM YEAR	RS (FY20	19 - FY20	022)		TOTAL	11,	100	
OTTO OTTO NET THE ALL AND A DECIMAL	(17.7)	T)	. (ארדה)		-	15 017	~	0.05	0.0.0	
317-315 MIT-Lincoln Laboratory	v (West	Lab CSI Lab EPI	L/MIF) F)			26,012	SM	225	,000	
			,							
				FU		OJECT	S TOTAL	441	,000	
									· ·	
10. MISSION OR MAJOR FUNCTIONS							TOTAL	64	. 3	
Hanscom Air Force Base is home	to the	Air For	ce Life	e Cycle	Manager	nent Ce	nter (A	FLCMC),	three	Program Executive
Offices, MIT Lincoln Laboratory	, and a	variet	y of ot	ther ter	nant or	ganizat	ions as	well a	s joint	-service military
nousting.										
11. OUTSTANDING POLLUTION AND S	AFETY D	DEFICIEN	ICIES (F	Y 2018-20	022)					
a. Air Pollution										
b. Water Pollution										
c. Occupational Safety and Health										
d. Other Environmental										
			001	STANDI	NG DEFIC		S TOTAL		0	
DD Form 1390, JUL 1999			PRE	VIOUS E	DITION IS	S OBSOL	ETE.			

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DA	ГА	2. DATE	
AIR FORCE		(c	omputer gen	erate	d)			
3. INSTALLATION	, SITE	E AND LOCATION		4. PH	ROJECT TITLE	1		
HANSCOM AIR FOR	CE BAS	SE		VANDENBERG GATE COMPLEX				
HANSCOM AFB SIT	E # 1							
MASSACHUSETTS		1						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27576		730-832	2487/	MXRD0		11,400		
		9. C	OST ESTIMA	TES				
		TUEN		TT / M	OUDDETEN	UNIT	COST	
		11EM		07M	QUANTITY		(\$000)	
PRIMARY FACILIT:	IES						2,297	
VISITOR CENTER (730-832)				SM	187	5,209	(974)	
GATEHOUSE / ID CHECK (730-839)					52	4,315	(224)	
COMMERCIAL VEH INPSECTION FAC (730-839)					164	4,315	(708)	
POV INSPECTION AREA (730-839)					73	4,437	(324)	
OVERWATCH (730-839)					5	4,315	(22)	
SUSTAINABILITY	SUSTAINABILITY AND ENERGY MEASURES						(45)	
SUPPORTING FACIN	LITIES						7,623	
UTILITIES				LS			(1,600)	
SITE IMPROVEME	NTS			LS			(1,040)	
PAVEMENTS				LS			(3,150)	
COMMUNICATIONS				LS			(560)	
DEMOLITION				SM	29	784	(23)	
PASSIVE SECURI	ТҮ МЕА	SURES		LS			(750)	
EMERGENCY GENE	RATOR	/ TRANSFER SWITCH		LS			(500)	
SUBTOTAL							9,919	
CONTINGENCY	(5.0%)					496	
TOTAL CONTRACT (COST						10,415	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				594	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				397	
TOTAL REQUEST							11,406	
TOTAL REQUEST (1	TOTAL REQUEST (ROUNDED)						11,400	
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				(83)	

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.

Air Conditioning: 3 Tons

DD	FORM	1391,	DEC	99
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Previous editions are obsolete.

AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE VANDENBERG GATE COMPLEX HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER PROJECT COST (\$000) 27576 730-832 2487/MXRD083000 11,400 11. Requirement: 521 SM Adequate: 40 SM Substandard: 29 SM PROJECT: Vandenberg Gate Complex (Current Mission) REQUIREMENT: 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. CURRENT SITUATION: 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 onbase 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. IMPACT IF NOT PROVIDED: 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. ADDITIONAL: 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.

FY 2018 MILITARY CONSTRUCTION PROJECT DATA

DD FORM 1391, DEC 99

1. COMPONENT

Previous editions are obsolete.

Page No.

2. DATE

1. COMPONENT		ГА	2. DATE			
AIR FORCE						
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE						
HANSCOM AIR FOR	COMPLEX					
HANSCOM AFB SIT						
MASSACHUSETTS						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)
27576		730-832	2487	/MXRD083000	11	,400

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 MILIT	ARY CONSTI omputer ge	UCTION I	PROJECT)	DATA	2	. DATE	
3. INSTALLATI	ON AND LO	CATION		4. PRO	JECT TI	TLE			
HANSCOM ATR F	HANSCOM ATE FORCE BASE VANDENBERG GATE COMPLEY								
HANSCOM AFR F	ITE # 1	2		VANDEIN	BERG GA	TE COMPLEX			
MASSACHUSETTS									
5. PROGRAM EL	EMENT	6. CATEGORY	CODE 7. H	ROJECT 1	NUMBER	8. PROJECT C	OST	(\$000)	
27576		730-832	24	87/MXRD0	83000	11	.40	0	
							/	•	
12. SUPPLEMEN	ITAL DATA	:							
a. Estimate	d Design	Data:							
(1) Proje	ct to be	accomplished	by design	-build p	rocedur	es			
(2) Basis	:	-		-					
(a) St	andard o	r Definitive 1	Design -					NO	
(b) Wh	nere Desi	gn Was Most R	ecently Us	ed -					
(3) All O	ther Desi	.gn Costs						456	
(4) Const	ruction (Contract Award	l				18	AUG	
(5) Const	ruction S	Start					18	SEP	
(6) Const	ruction (Completion					20	MAR	
(7) Energ	v Study/I	ife-Cycle and	lvsis was	/will be	perfor	med		VES	
EQUIPMENI	NOMENCL	ATURE	PROCURIN	G APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)	
FURNITURE	E, FIXTUR	ES AND EQUIP	34	00	2	2018		20	
CLOSED CA	APTION TV	EQUIPMENT	34	00	2	2018		33	
COMMUNIC	ATIONS EQ	UIPMENT	34	00	2	2018		30	

1. COMPONENT AIR FORCE	FY 2018 MILITARY CONSTRUCTION PROGRAM							2. DATE (YYYMMDD) 20160930			
3. INSTALLATION AND LOCATION				4. COM	MAND				5. AREA CONSTRUCTION		
NELLIS AIR FORCE BASE NEVADA			AIR CON	MBAT CO	MMAND			COSI	1.25		
6. PERSONNEL (1) P			PERMANENT		2) STUDENTS		(3) SUPPOR			TOTAL	
a. AS OF 30-Sep-16	1219	5741	1184	45	11	0	79	125	193	8,597	
b. END FY 2019	1241	5946	1012	45	11	0	79	125	193	8,652	
7. INVENTORY DATA (\$000)	14 100	1			1						
a. TOTAL ACREAGE b. INVENTORY TOTAL AS OF	14,160 30-Sep	-16								5,487,841	
c. AUTHORIZATION NOT YET IN IN	ENTOR	í Dood All								75,400	
e. PLANNED IN NEXT FOUR PROG	RAM YEA	ROGRAM	019-201	8) 2)						3,800	
f. REMAINING DEFICIENCY				1						20,000	
8. PROJECTS REQUESTED IN THIS PR	OGRAM	(FY 2018	:)							5,648,041	
(4) CODE (2) PB		TEGOR	(2) 6000	c	b. C	OST	c. DESIGN STATUS	
172-212 Virtual Warfare Cente:	r Opera	tions Fa	acility			5,574	SM	38,	000	Design/Build	
141-753 RED FLAG 5th Gen Faci	lity Ad	dition				3,939	SM	23,	000	Design/Build	
	PROOP				2001		TOTAL	61,	000		
172-212 CRH Simulator	PROGR		(FY20	19 - FY20)22)	556	SM	з,	800		
				FU	ITURE P	ROJECTS	S TOTAL	З,	800		
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	10	.6		
10. MISSION OR MAJOR FUNCTIONS	and r	ilot tr	aining	oporat	tion t	osting	and ta	ation d		ont in sir space and	
cyberspace. Its named unit, New	ada Tes	t & Tra	ining H	, operal Range (1	NTTR), (oversee	s the 1	5,000 s	q. mile	Nevada Test and	
Training Range Complex that inc	ludes a	n emerg	ency a	irfield	. 57th M	Wing, A	-10A, F	-15C/E,	F-16,	F-22A, F-35A, HH-60G.	
Weapons School); support for Ar	my exer	cises;	trainir	ng for :	interna	tional); grau personn	el in j	oint fi	repower procedures and	
techniques (57th Operations Gp.); and	USAF Ai	r Demor	nstratio	on Squa	dron. T	he 53rd	Wing s	erves a	s focal point for	
training devices, and operation	al test	ing and	l evalua	ation of	f propo:	sed new	equipm	e, recc ent and	l system	is. 505th Command and	
Control Wing builds the predomi	nant ai	r and s	pace co	ommand a	and con	trol ab	ility f	or comb	ined jo	int warfighters through	
training, testing, exercising,	and exp	eriment	ation.								
				V 2018-20	1221						
The outstanding Follo non and				1 2010-20	522)						
a. Air Poliution											
b. Water Pollution											
c. Occupational Safety and Health											
d. Other Environmental											
			0.17	ייריאדפי			S TOTA		n		
DD Form 1390 IIII 1999							ETE		0		

1. COMPONENT	FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE						2. DATE	
AIR FORCE	AIR FORCE (computer generated)							
3. INSTALLATION	3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE							
NELLIS AIR FORC	E BASE	1		RED F	LAG 5TH GEN	N FACILITY AD	DITION	
NELLIS SITE # 1								
5. PROGRAM ELEM	ENT	6 CATEGORY CODE	7. RPSUTD/	PROTE		8. PROTECT	COST (\$000)	
		0. CATEGORI CODE	,. RISSID,	I ROO E	CI NOMDER		CODI (\$000)	
27576		141-753	3056/	RKMF0	63004		23,000	
		9. 0	OST ESTIMA	TES				
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILIT	IES						15,571	
RED FLAG FACIL	ITY AD	DITION		SM	3,939	3,876	(15,266)	
SUSTAINABILITY	& ENE	RGY MEASURES		LS			(305)	
SUPPORTING FACIN	LITIES						4,468	
UTILITIES				LS			(928)	
SITE IMPROVEME	NTS			LS			(264)	
PAVEMENTS				LS			(1,588)	
COMMUNICATIONS	SUPPO	RT		LS			(1,321)	
DEMOLITION				SM	700	524	(367)	
SUBTOTAL							20,039	
CONTINGENCY	(5.0%))					1,002	
TOTAL CONTRACT (COST						21,041	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				1,199	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				802	
TOTAL REQUEST							23,042	
TOTAL REQUEST (1	ROUNDE	D)					23,000	
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				(600)	
10. Descripti	on of	Proposed Construct	ction: Co	nstru	ict a Red H	Flag (RF) 5t	h Gen	
accommodate th	ion u e mis	sion of the facili	ity. The	n and proje	ct will in	clude reinf	to	
concrete found	lation	, floor slab, stru	ictural st	eel f	rames, spl	lit-face mag	onry unit	
walls, single-	ply r	oofing system with	n parapet,	sens	itive comp	partmentaliz	ed	
information fa	cilit	ies (SCIF), specia	al access ;	progr	am facilit	ies (SAPF),	fire	
detection and	prote	ction systems, ut	ilities, c	ommun	ication su	upport, pave	ments and	
all other nece	ssary	support to ensure	e a comple [.]	te an	d usable f	Eacility. E	uilding	
addition work	inciu	des minor alteration	Lon work a	na ae + +ho	molition ((700 SM) to	tne bailitica	
will be design	ied as	permanent constru	ction in a	accor	dance with	the DoD Ur	ified	
Facilities Cri	teria	(UFC) 1-200-01, (General Bu	ildin	g Requirer	ments and UF	C 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: 140 Tons								
11. Requirement: 10733 SM Adequate: 6794 SM Substandard: 0 SM								
PROJECT: Red Flag 5th Gen Facility Addition (New Mission)								
REQUIREMENT:	RF re	quires a properly	sized and	conf	igured fac	ility to ex	ecute RF	
training opera	tions	at Nellis AFB. (Critical f	uncti	ons of RF	include: co	mmand;	
exercise manage 2900-4330 depl	ement. .oyed	personnel per exer	g, execution ccise; clas	on, s ssifi	ed and und	1 and debrie classified m	ing to dission	

DD FORM 1391, DEC 99

Previous editions are obsolete.

1. COMPONENT	FY 2018 MILITARY CONSTRUCTION PROJECT DATA						
AIR FORCE	(computer generated)						
3. INSTALLATION	2						
NELLIS AIR FORCE BASE RED FLAG 5TH GEN FACILITY ADDITION							
NELLIS SITE # 1							
NEVADA							
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)				
27576	141-753	3056/RKMF063004	23,000				

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 audiovisual, 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.

CURRENT SITUATION: 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 nonflying 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. IMPACT IF NOT PROVIDED: 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

Previous editions are obsolete.

1. COMPONENT	FY 2018 MILITARY CONSTR	2. DATE				
AIR FORCE	(computer generated)					
3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TITLE				
NELLIS AIR FORC	E BASE	RED FLAG 5TH GEN FACILITY ADDITION				
NELLIS SITE # 1						
NEVADA						
5. PROGRAM ELEM	ENT 6. CATEGORY CODE 7. RPSUID	P/PROJECT NUMBER 8. PROJECT C	OST (\$000)			

3056/RKMF063004

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.

141-753

ADDITIONAL: 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.

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.

27576

23,000

1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated)							. DATE		
3. INSTALLATIO	3. INSTALLATION AND LOCATION 4. PROJECT TITLE								
NELLIS AIR FO NELLIS SITE # NEVADA	RCE BASE 1			RED FI	LAG 5TH (GEN FACILITY	ADD	ITION	
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT C									
27576 141-753 3056/RKMF063004 23,000									
12. SUPPLEMENTAL DATA:									
(1) Projec	ct to be	accomplished b	y design	-build r	procedur	es			
(2) Basis (a) St (b) Wh	: andard c ere Desi	or Definitive De ign Was Most Rec	esign - cently U	sed -				NO	
(3) All O	ther Des	ign Costs						920	
(4) Const	ruction	Contract Award					18	AUG	
(5) Const	ruction	Start					18	SEP	
(6) Const	ruction	Completion					20	SEP	
(7) Energy	y Study/	Life-Cycle anal	ysis wa	s/will be	e perfor	med		YES	
b. Equipmen	t associ	ated with this	project	provide	d from c	other appropr	iati	ons:	
EQUIPMENI	NOMENCI	LATURE	PROCURI	IG APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)	
FURNISHIN	IGS		34	00	2	2020		400	
COMMUNICA	TIONS-E	LECTRONIC EQUI	34	00	2	2020		200	

1. COMPONENT	FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE						2. DATE
AIR FORCE	AIR FORCE (computer generated)						
3. INSTALLATION	, SITE	AND LOCATION		4. PR	OJECT TITLE	5	
NELLIS AIR FORC	E BASE	1		VIRTU	AL WARFARE	CENTER OPERAT	IONS FACILITY
NELLIS SITE # 1							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJEC	CT NUMBER	8. PROJECT	COST (\$000)
27576		171-212	3056/	RKMF1	83001	3	8,000
		9. C	OST ESTIMA	TES			
		ттем		TT/M	OUANTTTY	UNIT	COST
				0/14	QUANTITI		(\$000)
PRIMARY FACILITI	IES						25,168
VIRTUAL WARFARI	E CENT	ER OPERATIONS FACILI	TY	SM	5,774	4,273	(24,674)
SUSTAINABILITY	& ENE	RGY MEASURES		LS			(493)
SUPPORTING FACII	LITIES						8,008
UTILITIES				LS			(5,070)
SITE IMPROVEMEN	NTS			LS			(1,351)
PAVEMENTS				LS			(1,102)
COMMUNICATIONS	SUPPO	RT		LS			(406)
DEMOLITION				SM	167	475	(79)
SUBTOTAL							33,176
CONTINGENCY	(5.0%))					1,659
TOTAL CONTRACT (COST						34,835
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				1,986
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	UBTOTAL)			_	1,327
TOTAL REQUEST							38,148
TOTAL REQUEST (F	ROUNDE	D)					38,000
EQUIPMENT FROM (OTHER 2	APPROPRIATIONS (NON-	ADD)				(75,450)
10. Descripti	on of	Proposed Construc	ction: Con	nstru	ct a Virtu	al Warfare	Center
Operations Fac	ility	utilizing convent	ional des	ign a	nd constru	ction metho	ls to
accommodate th	e mis	and floor slab	ty. The structural	racii	lty Will J l frames	nclude a re	masonry
unit walls, a	stand	ing seam metal roo	of system v	with	parapet, a	nd special a	
program facili	ties	(SAPF). Requireme	ents assoc	iated	with sens	sitive	
compartmentali	zed i	nformation facilit	ies (SCIF) and	SAPF must	be incorpo:	rated into
the project.	Proje	ct will include fi	ire suppre	ssion	systems,	all utiliti	28,
pavements, com	munic	ations, site impro	ovements, a	and a	ssociated	support fac.	ilities to
provide a comp	lete	and useable facili	ity. One :	facil	ity (167 S	SM) will be (demolished
as part of thi	s Mil	con project. Facil	LITIES WIL	L De	designed a	is permanent) 1-200-01
General Buildi	ng Re	guirements and UFC	1-200-02	. Hig	h Performa	ince and Sus	tainable
Building Requi	remen	ts. This project	will comp	ly wi	th DoD ant	iterrorism/	force
protection requirements per UFC 4-010-01.							
Air Conditioning: 200 Tons							
11. Requirement: 11705 SM Adequate: 6131 SM Substandard: 0 SM							
PROJECT: Virt	ual W	arfare Center Open	rations Fa	cilit	y (New Mis	sion)	
REQUIREMENT:	The C	ombat Air Force (C	CAF) requi	res a	simulator	integration	n facility
at Nellis AFB	to en	able 5th generatio	on F-35/F-2	22 Hi	gh-End Adv	vanced Train	ing and
Tactics Develo	Tactics Development (HEAT2). This facility, the Virtual Warfare Center Operations						

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Previous editions are obsolete.

1. COMPONENT	FY 2018 MILIT	DATA 2. DATE					
AIR FORCE	(c						
3. INSTALLATION	TLE						
NELLIS AIR FORCE	E BASE	VIRTUAL WARFA	VIRTUAL WARFARE CENTER OPERATIONS FACILITY				
NELLIS SITE # 1							
NEVADA							
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)				
27576	171-212	3056/RKMF183001	38,000				

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 & 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 audiovisual, computer, etc.); and security and large amounts of data storage.

CURRENT SITUATION: 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 CAFstandard 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.

<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

Previous editions are obsolete.
1. COMPONENT	FY 2018 MILII	FY 2018 MILITARY CONSTRUCTION PROJECT DATA									
AIR FORCE	(c	(computer generated)									
3. INSTALLATION	, SITE AND LOCATION		4. PROJECT TITLE								
NELLIS AIR FORC	E BASE		VIRTUAL WARFARE	CENTER OPERATI	ONS FACILITY						
NELLIS SITE # 1											
NEVADA											
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)						

3056/RKMF183001

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 Nellisbased users but also for the CAF as a whole.

171-212

<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)

BASE CIVIL ENGINEER: McMullen

27576

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.

38,000

1. COMPONENT AIR FORCE		FY 2018 MILITA	RY CONS	TRUCTIO	N PROJECT	DATA	2. DATE
3. INSTALLATIO	ON AND L	OCATION		4. P	ROTECT TT	TT.E	I
NELLIS AIR FO NELLIS SITE # NEVADA	RCE BASE			VIRT FACI	UAL WARFA LITY	RE CENTER OPEN	RATIONS
5. PROGRAM EL	EMENT	6. CATEGORY C	ODE 7.	PROJEC	I NUMBER	8. PROJECT CC	ST (\$000)
27576		171-212	3	056/RKM	F183001	38,	000
12. SUPPLEMEN	TAL DATA	A:					
a. Estimate	d Desigr	Data:					
(1) Projec	ct to be	accomplished b	y desig	n-build	procedur	es	
(2) Basis (a) St (b) Wh	: andard o ere Des:	or Definitive De ign Was Most Rec	esign - cently	Used -			NO
(3) All O	ther Des	ign Costs					1,400
(4) Consti	ruction	Contract Award					18 FEB
(5) Consti	ruction	Start					18 MAR
(6) Constr	ruction	Completion					20 MAR
(7) Energy	y Study/	Life-Cycle anal	ysis wa	s/will	be perfor	med	YES
b. Equipmen	t associ	ated with this.	project	t provid	fied from of FISC	other appropri	ations:
EQUIPMENT	NOMENCI	LATURE	ROCOR	ING AFTN	OR RE	QUESTED	(\$000)
FLIGHT SI	MULATOR	EQUIPMENT	3	080	2	2019	75,000
FURNISHIN	IGS		3	400	2	2019	300
COMMUNICA	TIONS-E	LECTRONIC EQUI	3	400	2	2019	150

1. COMPONENT		FY 20	18 MIL	TARY	ONSTR		N PRO	GRAM	2. DATE	(YYYMMDD)		
AIR FORCE 3. INSTALLATION AND LOCATION				4. COM	MAND				5. AREA	AREA CONSTRUCTION		
CANNON AIR FORCE BASE				AE Cro			a Commo	nd	COST	INDEX		
NEW MEXICO				Ar spe	Stat Ope					1.01		
6. PERSONNEL	(1)	PERMAN ENLISTED	ENT CIVILIAN	(2) OFFICER	STUDEN ENLISTED	CIVILIAN	(3)	SUPPOR ENLISTED	TED CIVILIAN	TOTAL		
a. AS OF 30-Sep-16	914	3718	438	0	0	0	0	0	0	5,070		
b. END FY 2022	781	3620	455	0	0	0	0	0	0	4,856		
7. INVENTORY DATA (\$000)									1 1			
a. TOTAL ACREAGE	5,756											
D. INVENIORY IOTAL AS OF 30-Sep-16										1,640,884,568		
d. AUTHORIZATION REQUESTED I			(FY 201	8)						42,000		
e. PLANNED IN NEXT FOUR PROG	RAM YEA	RS (FY 2	2019-202	2)						0		
f. REMAINING DEFICIENCY										44,000		
g. GRAND TOTAL 8 PROJECTS REQUESTED IN THIS PR	OGRAM	(FY 2018	2)							1,641,028,968		
	a. CA	TEGOR	ſ					b. C	OST	c. DESIGN STATUS		
(1) CODE (2) PF	OJECT T	ITLE			(3) SCOP	E	(\$0	000)	(1) START (2) COMPLETE		
116-662 Dangerous Cargo Pad R	elocate	CATM				65,220	SM	42,	000	DESIGN/BUILD		
							ΤΟΤΑΙ	42	000			
9 FUTURE PROJECTS IN NEXT FOUR	PROGR	ΔΜ ΥΕΔΕ	2S (EY20	19 - FY2	122)			,				
				FU	ITURE PF	OJECT	S TOTAL		0			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	16	5.4			
10. MISSION OR MAJOR FUNCTIONS		1 0										
installation. The wing's core precision strike, forward prese specialized mobility.	mission ence and	s inclu engage	ment,	intelli	support, gence, s	agile surveil	combat lance a	suppor nd recc	nnaissa	rmation operations, nce operations, and		
11. OUTSTANDING POLLUTION AND	SAFETY [PEFICIEN	ICIES (F	Y 2018-20	122)							
a. Air Pollution												
b. Water Pollution												
c. Occupational Safety and Health												
d. Other Environmental												
				STANDI	NG DEFIC		<u>S T</u> OTAL		0			

1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE									
AIR FORCE		(computer generated)									
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	:	- I				
CANNON AIR FORC	E BASE	1		DANGE	ROUS CARGO	PAD RELOCATE	CATM				
CANNON AFB SITE	# 1										
NEW MEXICO											
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)				
27576		116-662	1551/	CZQZ1	43001		12,000				
		9. C	OST ESTIMA	TES							
TTEM U/M OHANTITY COST											
				0/11	QUIMITI		(\$000)				
PRIMARY FACILIT	IES						28,620				
DANGEROUS CARG	O PAD	& LIGHTING (116-662)	1	SM	30,645	226	(6,926)				
COMBAT ARMS TR	AINING	& MAINT. (171-476)		SM	4,036	3,308	(13,351)				
ROD & GUN CLUB	(740-	315)		SM	79	5,712	(451)				
TRAP & SKEET R	ANGE (750-581)		EA	1	447,085	(447)				
TAXIWAY PAVEME	NT AND	SHOULDERS (112-211)	1	SM	30,460	226	(6,884)				
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(561)				
SUPPORTING FACE	LITIES						8,400				
SITE PREPARATI	ON			LS	İ		(2,437)				
UTILITIES				LS	İ		(1,317)				
PAVEMENTS				LS		ĺ	(515)				
COMMUNICATIONS				LS	İ	ĺ	(714)				
SITE IMPROVEME	NTS			LS		ĺ	(39)				
DEMOLITION				LS			(430)				
CATM, RANGE, &	TRAP	AND SKEET REMEDIATIO)N	LS			(2,809)				
STORAGE SHED				SM	142	982	(139)				
SUBTOTAL							37,021				
CONTINGENCY	(5.0%))					1,851				
TOTAL CONTRACT	COST					-	38,872				
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				2,216				
DESIGN/BUILD -	DESIGN	COST (4.0% OF 5	SUBTOTAL)				1,481				
TOTAL REQUEST						=	42,568				
TOTAL REQUEST (1	ROUNDE	D)					42,000				
EQUIPMENT FROM	OTHER	APPROPRIATIONS (NON-				(2,700)					
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ct a dange	erous cargo	pad area				
and new combat small arms rar skeet range ut the mission of	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-

DD FORM 1391, DEC 99

1. COMPONENT

AIR FORCE

3. INSTALLATION, SITE AND LOCATION CANNON AIR FORCE BASE

DANGEROUS CARGO PAD RELOCATE CATM CANNON AFB SITE # 1 NEW MEXICO 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER PROJECT COST (\$000) 1551/CZQZ143001 42,000 27576 116-662

FY 2018 MILITARY CONSTRUCTION PROJECT DATA

(computer generated)

4. PROJECT TITLE

155, Occupational and Environmental Health Exposure Controls, and 29 CFR 1910.1025, Lead.

11. Requirement: 17192 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Dangerous Cargo Pad Relocate CATM (Current Mission)

RECUIREMENT: 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)

CURRENT SITUATION: 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

MAY 2017

MAY 2017

Page No.

1	1	2

AIR FORCE	(c									
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE										
CANNON AIR FORCE BASE DANGEROUS CARGO PAD RELOCATE CA										
CANNON AFB SITE # 1										
NEW MEXICO										
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	OST (\$000)					
27576	42	,000								

feet high, it lacks overhead baffles and a roof and, therefore, is not fully enclosed in accordance with ETL 11-18.

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 onbase 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. 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 & Lighting: 30,645 SM = 329,860 SF; Combat Arms Training & Maintenance: 4,036 SM = 43,443 SF; Rod & Gun Club: 79 SM = 850 SF; Taxiway Pavement & Shoulders: 30,460 SM = 327,869 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.

FY 2018 MILITARY CONSTRUCTION PROJECT DATA

1. COMPONENT AIR FORCE		FY 2018 MILITARY C (comput	ONSTRU er gen	CTION PRO	JECT	DATA	2	. DATE
2 TNCTALLAT				4 55075				
5. INSTALLATI	ON AND I	-		4. PROJEC		ГLЕ 		
CANNON AIR FO	RCE BASE	6		DANGEROUS	S CARO	30 PAD RELOCA	TE (CATM
NEW MEXICO	16 # 1							
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PR	OJECT NUN	(BER	8. PROJECT CO	OST	(\$000)
27576		116-662	1551	L/CZQZ143	001	42	,00	0
12 SIIPPI.EMEN	ידאר. האדי	.						
a. Estimate	d Design	n Data:						
(1) Proje	ct to be	accomplished by de	sign-k	ouild pro	cedure	25		
(2) Basis	:		-	-				
(a) St (b) Wh	andard onere Des	or Definitive Design ign Was Most Recent	n - ly Use	d -				NO
(3) All O	ther Des	ign Costs						960
(4) Const	ruction	Contract Award					18	AUG
(5) Const	ruction	Start					18	SEP
(6) Const	ruction	Completion					20	SEP
(7) Energ	y Study/	Life-Cycle analysis	s was/v	vill be p	erfori	med		YES
EQUIPMENT	NOMENC:	PROC	CURING	APPRC	APPRO OR RE	PRIATED QUESTED		COST (\$000)
BULLET TH	RAP		3080)	2	017		2,200
C4I EQUII	PMENT		3080)	2	017		400
MODULAR I	URNISHI	NGS	3080)	2	017		100

1. COMPONENT		FY 20	18 MILI	TARY	ONSTR		N PRO	GRAM	RAM 2. DATE (YYYMMDD)			
3. INSTALLATION AND LOCATION				4. COM	MAND				5. AREA		ON	
HOLLOMAN AIR FORCE BASE				AIR COM	MBAT CON	MAND			COST			
6. PERSONNEL	(1) F	PERMAN	ENT	(2)	STUDEN	TS	(3)	SUPPOR	TED	0.99 TO		
c	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	10		
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	
7. INVENTORY DATA (\$000) a. TOTAL ACREAGE 51	8,723											
b. INVENTORY TOTAL AS OF 3	0-Sep-	-16									4,001,838	
c. AUTHORIZATION NOT YET IN INVE			/EV 201	0)							40,850	
e. PLANNED IN NEXT FOUR PROGRA	M YEA	RS (FY 2	019-202	8) 2)							4,230	
f. REMAINING DEFICIENCY											0	
g. GRAND TOTAL 8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2018)											4,046,938	
a. CATEGORY b. CO									OST	c. DESIG	N STATUS	
(1) CODE (2) PRO.	JECT T	ITLE			(;	3) SCOP	E	(\$0	000) 250	(1) START	(2) COMPLETE	
149-511 RPA Fixed Ground Contro.	I SLAI	LION Fac	SIIILY			697	SM	4,	250	Design	/Build	
							TOTAL	4,:	250			
				FU	TURE PF	OJECT	S TOTAL		0			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	8	.1			
10. MISSION OR MAJOR FUNCTIONS	Comb	at Comm	and in	+		orting	. m . o m	alon Do	not moi	ntonona. M	1 Drodator	
and MQ-9 Reaper Formal Training U QF-16 Full Scale Aerial Targets m support group.	Jnits; Nissio	F-16 F n; 10-m	ormal 1 ile Tes	Fraining st Tracl	g Unit; c (AFMC)	German ; and	Air Fo the War	rce Tor Reserv	nado fic e Mater:	ghter squadr ial (WRM) Ba	ron; QF-4 /	
11. OUTSTANDING POLLUTION AND SA	FETY D	DEFICIEN	CIES (F	Y 2018-20	022)							
a. Air Pollution												
b. Water Pollution												
c. Occupational Safety and Health												
d. Other Environmental												
			ουτ	STANDI	NG DEFIC		S TOTAL		0			

1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE		(computer generated)								
3. INSTALLATION	, SITI	E AND LOCATION		4. PROJECT TITLE						
HOLLOMAN AIR FO HOLLOMAN SITE # NEW MEXICO	RCE B	ASE		RPA FIXED GROUND CONTROL STATION FACILITY						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PH	ROJECI	NUMBER	8. PROJECT (COST (\$000)			
25219		149-511	2352/1	WRD14	3000	4	,250			
		9.	COST ESTIMA	TES						
		ттем		тт/м	OUANTTTY	UNIT	COST			
		TIEW		0/11	QUANIIII		(\$000)			
PRIMARY FACILIT	ES						2,950			
GROUND CONTROL	STATI	ION		SM	697	4,150	(2,893)			
SUSTAINABILITY	AND E	ENERGY MEASURES		LS			(58)			
SUPPORTING FACII	LITIES						887			
UTILITIES				LS			(200)			
PAVEMENTS				LS			(200)			
SITE IMPROVEMEN	NTS			LS			(150)			
BACKUP POWER G	ENERAI	TION		LS			(312)			
COMMUNICATION	SUPPOF	RT		LS			(25)			
SUBTOTAL							3,837			
CONTINGENCY	(5	.0%)					192			
TOTAL CONTRACT (COST					-	4,029			
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				230			
TOTAL REQUEST						-	4,259			
TOTAL REQUEST (F	ROUNDE	D)					4,250			
EQUIPMENT FROM (THER	APPROPRIATIONS (NON	I-ADD)				(8,774)			
10. Descripti	on of	Proposed Constru	uction: Con	nstru	ct a Fixed	l Ground Cont	rol			
Station (FGCS)	faci	lity using conver	ntional desi	ign a:	nd constru	action method	ls to			
accommodate th	e mis ation	sion of the facil	lity. The i		ity will i v walle ar	Include a re:	Inforced			
metal roof. P	rojec	t will include fi	ire suppress	sion :	systems, a	all utilities	3,			
pavements, com	munic	ations, site impr	rovements, h	oacku	p power ge	eneration and	1			
associated sup	port	facilities to pro	ovide a comp	plete	and useat	ole facility				
Facilities wil	l be	designed as perma	anent constr	ructi	on in acco	ordance with	the DoD			
1-200-02, High	Perf	criteria (OFC) i-	-200-01, Gen ainable Buil	lding	Requireme	equirements	oroject			
will comply wi	th Do	D antiterrorism/f	Eorce protec	ction	requireme	ents per UFC	4-101-01.			
Air Conditioni	ng:	20 Tons								
11. Requiremen	t: 69	7 SM Adequate:	: 0 SM S1	ubsta	ndard: 0 S	3M				
PROJECT: Remo	tely	Piloted Aircraft	(RPA) Fixed	d Gro	und Contro	ol Station	(Current			
Mission)										
REQUIREMENT:	An ad	lequately sized an	nd configure	ed fa	cility is	required to	accommodate			
facility The	on of faci	ten new Block 50	erges and s	suppo: n ite	own miggi	on room and	n single provide			
communications	room	s for connectivit	to each a	squad	ron operat	ions center.	This			
allows Holloma	allows Holloman to transition from a temporary Mobile Ground Control Station (MGCS)									
system located	system located on an active flight line to a purpose-built fixed facility for RPA									
formal trainin	g.									
DD FORM 1391, 1	DEC 9	9 Previo	ous editions	are	obsolete.		Page No.			

1. COMPONENT	FY 2018 MILI	FY 2018 MILITARY CONSTRUCTION PROJECT DATA							
AIR FORCE	(
3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TITL	E						
HOLLOMAN AIR FO	RCE BASE	RPA FIXED GROUN	D CONTROL STATION FACILITY						
HOLLOMAN SITE #	1								
NEW MEXICO									
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)						
25219	149-511	2352/KWRD143000	4,250						

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.

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.

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

1. COMPONENT		FY 2018 MILITA	RY CON	ISTRUC	TION PROJEC	T DATA	2. DATE						
AIR FORCE		(cor	mputer	gener	rated)								
3. INSTALLATI	ON AND L	OCATION			4. PROJECT	TITLE							
HOLLOMAN AIR HOLLOMAN SITE NEW MEXICO	FORCE BA	SE			RPA FIXED FACILITY	GROUND CONTROL	STATION						
5. PROGRAM EL	EMENT	6. CATEGORY CO	ODE 7	. PRO	JECT NUMBER	8. PROJECT C	OST (\$000)						
25219		149-511		2352/	KWRD143000	4,	250						
12. SUPPLEMENTAL DATA:													
a. Estimated Design Data:													
(1) Statu	s:												
(a) Da	(a) Date Design Started 20-MAY-16												
(b) Pa	rametrio	Cost Estimates	s used	to de	evelop cost:	3	YES						
* (c) Pe	ercent Co	mplete as of 01	L JAN	2017			15%						
* (d) Da	te 35% I	Designed				01	-FEB-17						
(e) Da	erov St	n Complete dv/Life-Cvale a	analwa	ie wae	will be p	Ul arformed	-SEP-1/ VFC						
	lergy sco	dy/life-cycle a	апатуз	IS Was	wiii de be	errormed	IES						
(2) Basis	: andard (r Definitive De	agian	_			NO						
(b) Wh	ere Desi	ign Was Most Rec	cently	Used	-		No						
(3) Total	Cost (c	e) = (a) + (b) o	or (d)	+ (e)	:		(\$000)						
(a) Pr	oduction	n of Plans and S	Specif	icatio	ons		0						
(b) Al	l Other	Design Costs					168						
(c) To	tal						168						
(d) Co	ntract						0						
(e) In	-house						0						
(4) Const	ruction	Contract Award					18 FEB						
(5) Const	ruction	Start					18 MAR						
(6) Const	ruction	Completion					19 MAR						
* Indicat which i cost an	es compl s compan d execut	etion of Projec able to traditi ability.	ct Def ional	initic 35% de	on with Para sign to ens	ametric Cost Es sure valid scor	stimate pe,						
b. Equipmen	it associ	lated with this	proje	ct pro	ovided from	other appropri	ations:						
EQUIPMEN	I NOMENC	LATURE	PR(APPR	OCURIN OPRIAT	FIS G APPI 'ION OR I	CAL YEAR ROPRIATED REQUESTED	COST (\$000)						
FURNITUR	Ξ			3400		19	24						
BLOCK 50	8,500												
COMMUNIC	250												

1. COMPON	COMPONENT FY 2018 MILITARY CONSTRUCTION PROGRAM											2. DATE (YYYMMDD)			
3. INSTALL					4. COM	MAND				5. AREA					
MINOT AIR	FORCE BASE				ATD DO		משים דגר	THE CON	MAND	COST	INDEX				
NORTH DAKC	DTA				AIR FUI	KCE GLUI	DAL SIR	IKE COM	MAND		1.16				
6. PERSON	NEL			ENT	(2)	STUDEN		(3)			тс	TAL			
2 AS OF	30-Sep-16	60.8	4332	960						61		5 961			
	20022	600	1002	040	0	0	0	0	0	01 C1		E 04E			
D. END FY		603	4339	942	U	U	U	0	U	01		5,945			
a. TOTAL		24,708													
b. INVEN	ITORY TOTAL AS OF	30-Sep	-16									3,159,647			
c. AUTHO	ORIZATION NOT YET IN INV	ENTOR	((0)							86,055			
		A THIS PI	RS (EV 2	1 (FY 201 2019-202	2)							27,000			
f. REMA	INING DEFICIENCY			2010 202	_/							20,000			
g. GRAN	D TOTAL											3,351,702			
8. PROJECT	'S REQUESTED IN THIS PR	OGRAM	(FY 2018	3) v					<u> </u>	тео					
(1) CODE	(2) PR	OJECT T	ITLE	T		(3) SCOP	E	(\$C)00)	(1) START	(2) COMPLETE			
171-475	Indoor Firing Range					```	5,637	SM	27,	000	12/16	09/17			
								TOTAL	07	000					
9 FUTURE	PROJECTS IN NEXT FOUR	PROGR		RS (FY20)19 - FY2(122)		TOTAL	27,	000					
141-753	Consolidated Helo/TRF	Ops/AM	J and A	lert Fa	.c	/	12,394	SM	59,	000					
					FU	TURE PF	ROJECT	S TOTAL	59,	000					
R&M UNFUN	NDED REQUIREMENT (\$M)							TOTAL	54	1.9					
10. MISSION	N OR MAJOR FUNCTIONS					63				-	01				
major tena and securi	AND MANY IS THE NEED WITH AND AND AND AND AND AND AND AND AND AND	e insta II Inte	llatior rcontir	ICIES (F	91st Mi Ballisti	issile T ic Miss: 022)	Wing is iles.	respon	sible f	for the	operation,	maintenance			
				•		-									
a. Air Po	ollution														
b. Water	r Pollution														
c. Occuj	pational Safety and Health														
d. Other	Environmental														
				001	ISTANDI	NG DEFIC		S TOTAL		0					
DD Form 13	90, JUL 1999			PRE		DITION IS		ETE.							

1. COMPONENT		FY 2018 MILI	TARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE	
AIR FORCE			computer gen	erate	d)			
2 THOMAT ANTON			,	4 DT				
MINOT ATR FORCE	, BILL	E AND LOCATION		TNDOC	OUECI IIIL	e NCF		
MINOT AFB SITE	# 1			INDOC	K FIKING K	MGE		
NORTH DAKOTA	–							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT (COST (\$000)	
27576		171-475	2837/9	JVF01	2005	2	7,000	
		9.	COST ESTIMA	TES				
						UNIT	COST	
		ITEM		U/M	QUANTITY		(\$000)	
PRIMARY FACILIT	IES						20,043	
INDOOR RANGE				SM	5,637	3,486	(19,650)	
SUSTAINABILITY	AND E	ENERGY MEASURES		LS			(393)	
SUPPORTING FACIN	LITIES						3,937	
UTILITIES				LS			(873)	
WATER/SEWER UT	ILITY	CONNECTION FEE		LS			(11)	
GAS UTILITY CO	NNECTI	ION FEE		LS			(5)	
ELECTRIC UTILI	TY CON	NECTION FEE		LS			(5)	
PAVEMENTS				LS			(783)	
SITE IMPROVEME	NTS			LS			(383)	
DEMOLITION				SM	2,866	416	(1,192)	
ANTITERRORISM	MEASUF	RES		LS			(385)	
COMMUNICATION	SUPPOF	RT		LS			(300)	
SUBTOTAL							23,980	
CONTINGENCY	(5	5.0%)					1,199	
TOTAL CONTRACT (COST					-	25,179	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				1,435	
TOTAL REQUEST						-	26,614	
TOTAL REQUEST (H	ROUNDE	D)					27,000	
EQUIPMENT FROM (THER	APPROPRIATIONS (NON	I-ADD)				125	
10. Descripti	on of	Proposed Constru	ction: Con	nstru	ct an indo	or firing ra	ange	
consisting of	35 sm	all arms position	ns and four	mach	ine gun po	sitions; all	l firing	
positions shal	l be	25-meters in leng	gth and be o	apab	le of supp	porting up to	5 7.62-mm	
ammunition. Co	floo	iction shall be a	one-story I	ouild	ing with r	reinforced co	oncrete	
reinforced mas	onry	walls, and load-t	e built-up a	aspila.	concrete w	vall nanels	Project	
includes all p	lumbi	ng, mechanical, f	fire detect:	ion a	nd suppres	sion, electi	rical.	
communications	, mas	s notification sy	stem, energ	y ma	nagement o	control syste	∋m (EMCS)	
and all other	suppo	orting work necess	sary to make	ac	omplete ar	d useable fa	acility.	
Project includ	es de	molition of four	buildings	(2,88	6 SM). Fac	ilities will	l be	
designed as pe	rmane	ent construction i	in accordanc	ce wi	th the DoI	Unified Fac	cilities	
Criteria (UFC)	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 Antiterror	DoD Antiterrorism/force protection requirements per UFC 4-010-01.							
Air Conditioni	Air Conditioning: 60 Tons							
11. Requiremen	t: 56	37 SM Adequate	e: 0 SM 8	Subst	andard: 56	37 SM		
PROJECT: Indo	or Fi	iring Range (Curre	ent Mission)				

REQUIREMENT: A properly designed Indoor Firing Range is required at Minot AFB to

DD FORM 1391, DEC 99

1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE MINOT AIR FORCE BASE INDOOR FIRING RANGE MINOT AFB SITE # 1 NORTH DAKOTA 5. PROGRAM ELEMENT 6. CATEGORY CODE 8. PROJECT COST (\$000) 7. RPSUID/PROJECT NUMBER 27576 171-475 2837/QJVF012005 27,000

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.

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.

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.

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:

1. COMPONENT AIR FORCE	FY 2018 MI	FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE (computer generated)							
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE MINOT AIR FORCE BASE INDOOR FIRING RANGE MINOT AFB SITE # 1 NORTH DAKOTA									
5. PROGRAM ELEM	5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000)								
27576	171-475 2837/QJVF012005 27,000								

701-723-243. Indoor Range: 5637 SM = 60,676 SF.

1. COMPONENT	1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE									
AIR FORCE		(comp	iter gene	rated)						
3. INSTALLATI	ON AND L	OCATION		4. PROJECT	TITLE					
MINOT AIR FOR	CE BASE			INDOOR FIRI	NG RANGE					
MINOT AFB SIT	'E # 1									
NORTA DAROTA										
5. PROGRAM EL	EMENT	6. CATEGORY COD.		JECT NUMBER	8. PROJECT CC	ST (\$000)				
27576		171-475	2837/	QJVF012005	27,	,000				
12. SUPPLEMEN	TAL DATA									
a. Estimate	ed Desigr	Data:								
(1) Statu (a) Da	ls: Ite Desid	m Started			01	-DEC-16				
(a) Da (b) Pa	arametric	: Cost Estimates u	used to d	evelop costs	01	YES				
* (c) Pe	* (c) Percent Complete as of 01 JAN 2017 15%									
* (d) Da	* (d) Date 35% Designed 01-MAR-17									
(e) Da	(e) Date Design Complete 01-SEP-17									
(f) Energy Study/Life-Cycle analysis was/will be performed YES										
(2) Basis	:									
(a) St	(a) Standard or Definitive Design - YES									
(b) Wh	(b) Where Design Was Most Recently Used - Buckley									
(3) Total	. Cost (c	(a) = (a) + (b) or	(d) + (e):		(\$000)				
(a) Pr	oductior	n of Plans and Spe	cificati	ons		1,620				
(b) Al	l Other	Design Costs				810				
(c) To	otal					2,430				
(d) Co	ontract					2,025				
(4) Const	rugtion	Contract Award				10 5				
(F) Const		dtaut				10 FEB				
(5) Const	ruction	Start				18 MAR				
(6) Const	ruction	Completion				20 MAR				
* Indicat	es compl	etion of Project	Definiti	on with Param	metric Cost Es	timate				
which i	s compar	able to tradition	al 35% d	esign to ensu	re valid scop	e,				
cost an	nd execut	ability.								
b. Equipmer	nt associ	lated with this pr	oject pr	ovided from c	other appropri	ations:				
				FISC	AL YEAR					
EOUTPMEN'	T NOMENC	LATURE A	PROCURIN	G APPRO	PRIATED COUESTED	COST (\$000)				
FURNITUR	E. FIXTU	RE & EOUIP	3400		20	75				
COMMUNICATIONS EQUIPMENT 3400 20 50										
DD FORM 1391, 1	DEC 99	Previous	ditions	are obsolete	. F	age No.				

1. COMPONENT ATR FORCE FY 2018 MILITARY CONSTRUCTION PROGR									2. DATE (YYYMMDD) 20160930			
3. INSTALLATION AND LOCATION ALTUS AIR FORCE BASE				4. COM	MAND JCATION	AND TR	AINING		5. AREA COST			
6. PERSONNEL	(1)	PERMAN	ENT	(2)		TS	(3)	SUPPOR	TED	0.89		
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	то	TAL	
a. AS OF 30-Sep-16	260	1080	303	277	160	18	0	0	546		2,644	
b. END FY 2022	264	1081	303	1149	604	79	0	0	596		4,076	
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE	6,836	-16									1 311 522	
c. AUTHORIZATION NOT YET IN INV	ENTOR	(40,000	
d. AUTHORIZATION REQUESTED I	I THIS PI	ROGRAM	l (FY 201	8)							4,900	
e. PLANNED IN NEXT FOUR PROGI	RAM YEA	RS (FY 2	2019-2022	2)							28,000	
a. GRAND TOTAL											1,442,522	
8. PROJECTS REQUESTED IN THIS PR	OGRAM	(FY 2018	:)									
(1) 00055 (0) 00		TEGOR	(-	b. C	OST	c. DESIG	N STATUS	
(1) CODE (2) PR	OJECI I	hase 2			(1.054	SM	(\$0	<i>00)</i> 200	(1) START	(2) COMPLETE	
		indbe b				1,001	614	- / ·		00/10	00717	
							TOTAL	4,	900			
9. FUTURE PROJECTS IN NEXT FOUR	PROGR	AM YEAF	RS (FY20	19 - FY2(022)	2 205	CM	16	000			
171-625 KC-46A FTU Fuselage T	ainer I	hase 3				2,035	SM	12,	000			
				FU	ITURE PF	ROJECT	S TOTAL	28,	000			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	0	.9			
The 97th Air Mobility Wing (AMW aircraft for active duty, Guard contingency support. The 97 AMW sector of the continental Unite Defense Missions, Coastal Defen) at Al , and R has co d State se and	tus AFB eserve mplete s. In a Maritim DEFICIEN	s is res aircrew respons dditior me Inter	sponsib w, while sibility n, the 9 cdiction Y2018-20	le for f e mainta g for al 97 AMW i n and fu 022)	formal aining 11 refu 15 an i ature 1	trainin worldwi eling o ntegral ocation	g for C de capa f milit part o for th	-17, KC bility ary air f two S e KC-46	-135, and KG to augment (craft in it: trategic Hon A mission.	C-46 Global Reach a assigned neland	
a. Air Pollution												
b. Water Pollution												
b. Water Pollution c. Occupational Safety and Health												
b. Water Pollution c. Occupational Safety and Health d. Other Environmental												
b. Water Pollution c. Occupational Safety and Health d. Other Environmental												

1. COMPONENT		FY 2018 MILI	TARY CONSTRU	RY CONSTRUCTION PROJECT DATA					
AIR FORCE			(computer gen	enerated)					
3. INSTALLATION	, SITI	E AND LOCATION		4. PROJECT TITLE					
ALTUS AIR FORCE	BASE			KC-46A FTU FUSELAGE TRAINER PHASE 2					
ALTUS AIR FORCE	BASE	SITE # 1							
OKLAHOMA									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT	NUMBER	8. PROJECT	COST (\$000)		
41221		171-625	1361/2	1/AGGN193001 4,900					
		9.	COST ESTIMA	TES					
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)		
PRIMARY FACILITI	IES						3,674		
ADD FUSELAGE TI	RAINEF	FACILITY (171-625))	SM	801	4,248	(3,403)		
ALTER FUSELAGE	TRAIN	IER FACILITY (171-62	25)	SM	11	4,350	(48)		
COVERED STORAG	E (442	2-628)		SM	242	626	(151)		
SUSTAINABILITY	AND B	NERGY MEASURES		LS			(72)		
SUPPORTING FACII	ITIES			İ			719		
SPECIAL FOUNDA	TIONS			LS			(67)		
SITE IMPROVEMEN	TS			LS			(435)		
UTILITIES				LS			(172)		
COMMUNICATIONS				LS			(45)		
SUBTOTAL							4,393		
CONTINGENCY	(5	.0%)					220		
TOTAL CONTRACT C	COST						4,613		
SUPERVISION, INS	PECTI	ON AND OVERHEAD	(5.7%)				263		
TOTAL REQUEST							4,876		
TOTAL REQUEST (F	OUNDE	D)					4,900		
EQUIPMENT FROM C	THER	APPROPRIATIONS (NON	I-ADD)				(10,420)		
10. Descripti	on of	Proposed Constru	I-ADD)	d/Alt	er the exi	sting high	(10,420) bay of the		
Fuselage Train	er (F	uT) facility usin	ng economica	al de:	sign and c	construction	n methods to		
place concrete	foot	er and foundation	n walls, a s	steel	structura	al frame wit	th brick		
veneer and fac	tory-	finished sloped 1	roof with r	igid	insulation	board. Pr	roject will		
include fire s	uppre	ssion systems, al	ll utilitie:	s, pa	vements, c	communicatio	ons, site		
improvements,	and a	ssociated support	t facilities	s to j	provide a	complete an	nd useable		
facility. Fac	iliti	es will be design	ned as perma	anent	construct	ion in acco	ordance with		
the DoD Unifie	d Fac	ilities Criteria	(UFC) 1-200	0-01,	General E Building I	Building Red	Juirements		
project will c	വമം ല വന്നിയ	with DoD antite	rorism/for	abie i re pro	otection r	requirement	s per IIFC 4-		
101-01.	ompij	with Dod untited	101101, 101	CC PL	000001011	equil emerie	, per ore r		
Air Conditioni	Air Conditioning: 100 Tons								
11. Requiremen	1. Requirement: 2280 SM Adequate: 1226 SM Substandard: 0 SM								
PROJECT: Add	Alter	KC-46A FTU Fuse	lage Traine	r Pha	se 2 (New	Mission)			
REQUIREMENT:	The A	ir Force has desi	ignated Alt	us AFI	B, OK as t	he Formal ?	Fraining		
Unit (FTU) for	the	KC-46A tanker aim	craft. The	is fa	cility wil	l support e	enterprise		
training and b	eddow	n of a KC-46A tra	aining squad	dron (comprised	eight airc	aft. These		
and conditioned	d Fiis	elage Trainers (F	runrougn Fi Tun) are rea	uire	Adequate	rt cargo 1	onrigured		
convectore	up		, ure red	7~++60		IC			

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planning, configuration training including converting interior passenger support,

1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE ALTUS AIR FORCE BASE KC-46A FTU FUSELAGE TRAINER PHASE 2 ALTUS AIR FORCE BASE SITE # 1 OKLAHOMA 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) 41221 171-625 1361/AGGN193001 4,900

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).

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 ATFP setback requirements.

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.

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.

1. COMPONENT		FY 2018 MILITA	RY CO	ONSTRUC	TION PROJ	ECT DATA		2. DATE		
AIR FORCE		(co	mpute	er gene	rated)					
3. INSTALLATI	ON AND L	OCATION			4. PROJE	CT TITLE				
ALTUS AIR FOR ALTUS AIR FOR OKLAHOMA	CE BASE CE BASE	SITE # 1			KC-46A F	TU FUSELAGE	TRAIN	IER PHASE 2		
5. PROGRAM EL	EMENT	6. CATEGORY C	ODE	7. PRO	JECT NUMB	ER 8. PROJ	ECT CC)ST (\$000)		
41221		171-625		1361/	AGGN19300)1	4,	900		
12. SUPPLEMEN	TAL DATA	.:								
a. Estimate	ed Design	Data:								
(1) Statu	ls:									
(a) Da	te Desig	n Started			_		20	-MAY-16		
(b) Parametric Cost Estimates used to develop costs										
* (c) Pe	ercent Co	omplete as of 01	L JAN	2017				15%		
* (d) Da	te 35% D	esigned					01	-FEB-17		
(e) Da	te Desig	n Complete		aia wa	./	nonformed	01	-SEP-17		
	lergy Stu	ay/Life-Cycle a	anaiy	SIS Was	s/will be	periormed		IES		
(2) Basis	andard c	r Definitive D	agian	_				NO		
(a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used -										
(3) Total	. Cost (c	(a) = (a) + (b) c	or (d) + (e)	:			(\$000)		
(a) Pr	oduction	of Plans and S	Speci	ficatio	ons			294		
(b) Al	l Other	Design Costs						147		
(c) To	otal							441		
(d) Co	ontract							368		
(e) In	n-house							74		
(4) Const	ruction	Contract Award						18 FEB		
(5) Const	ruction	Start						18 MAR		
(6) Const	ruction	Completion						19 MAR		
* Indicat which i cost an	es compl s compar d execut	etion of Projec able to traditi ability.	ct De ional	finitic 35% de	on with Pa esign to a	arametric Co ensure valio	ost Es 1 scop	timate e,		
b. Equipmen	nt associ	ated with this	proj	ect pro	ovided fro	om other app	propri	ations:		
EQUIPMEN	FISCAL YEAR PROCURING APPROPRIATED COST EQUIPMENT NOMENCLATURE APPROPRIATION OR REQUESTED (\$000)									
FUSELAGE TRAINER 3080 2017								10,000		
FURNISHINGS AND EQUIPMENT 3400 2018							420			

1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROGRAM										30		
3. INSTALL	ATION AND LOCATION				4. COM	MAND				5. AREA	CONSTRUCT	
JOINT BAS	E SAN ANTONIO - LACKLA	ND AIR	FORCE E	BASE	AIR EDU	JCATION	AND TR	AINING		COST	INDEX	
TEXAS					COMMANI	D					0.86	
6. PERSON	INEL	(1)	PERMAN	ENT	(2)	STUDEN	TS	(3)	SUPPOR	TED	тс	DTAL
a AS OF	30-Sep-16	691	3335	2465	555	1356	2.5	1634	7557	5708		23,326
b END FY	2022	679	3362	2453	555	1356	25	1672	7179	6630		23,911
7. INVENTO	DRY DATA (\$000)								-			,
a. TOTA	LACREAGE	2,720										
b. INVEN	NTORY TOTAL AS OF	30-Sep	-16									4,610,439
c. AUTH	ORIZATION NOT YET IN INV	ENTOR	(202,530
d. AUTH				I (FY 201	8)							138,130
f. REMA	AINING DEFICIENCY			2019-202	2)							25,000
g. GRAN	ND TOTAL											5,031,099
8. PROJEC	TS REQUESTED IN THIS PR	OGRAM	(FY 2018	3)								
		a. CA	TEGOR	Y					b. C	OST	c. DESIG	SN STATUS
(1) CODE	(2) PR		IILE			(3) SCOP	E	(\$0	130	(1) START	(2) COMPLETE
171-621	BMT Classrooms/Dining	Facilit	.v 4				5,891	SM	38,	000	07/16	09/17
149-962	Air Traffic Control To	wer	-1 -				586	SM	10,	000	Desig	n/Build
								τοται	138	130		
9 FUTURE	PROJECTS IN NEXT FOUR	PROGR		RS (FY20	19 - FY2(122)		TUTAL	130	,150		
730-773	BMT Chapel for America	's Airr	nen		10 1 120	////	8,768	SM	30,	000		
141-456	91 COS Operations Cent	er					3,886	SM	25,	000		
					FU	TURE PF	OJECT	S TOTAL	55,	000		
R&M UNFU	NDED REQUIREMENT (\$M)							TOTAL	9	. 4		
10. MISSIO	N OR MAJOR FUNCTIONS								-			
A trainin	g wing which includes	Basic M	ilitary	/ Train	ing, Sec	curity H	Forces,	Combat	Convoy	/Arms/C	ontrol, Par	arescue,
Survival 1	Evasion Resistance Esc	ape, Lo	gistics	s, Enlis	sted Air	rcrew, S	Service	s, Cont	racting	, Vehic	le Maintena	nce,
Military	Training Instructor, D	efense	Languag	ge Inst	itute Er	nglish I	anguag	e Cente	r, Inte	r-Ameri	can Air For	ces Academy,
and DoD M	ilitary Working Dog Tr	aining.	Additi	onal m	issions	include	e Air F	orce Se	curity	Forces	Center, Rec	ruiting,
Cryptogra	phic maintenance, Rese	rve c-J	LIAIIII	ing, and	u a majo	JI Medic	ai cen	ter.				
11. OUTST	ANDING POLLUTION AND S	SAFETY D	DEFICIEN	ICIES (F	Y 2018-20	022)						
a. All Fo	oliulion											
b. Wate	er Pollution											
	inational Sofaty and Looks											
c. Occu	ipational Safety and Health											
d. Othe	r Environmental											
					STAND			S ΤΟΤΔΙ		0		
DD Form 12	200 1111 1000						S OBSOL	FTF		-		
	50, JUL 1333											

1. COMPONENT		FY 2018 MILIT.	ARY CONSTRUCTION PROJECT DATA 2. DA						
AIR FORCE		(c	omputer gen	enerated)					
3. INSTALLATION	, SITE	AND LOCATION		4. PF	OJECT TITLE	S	·		
JOINT BASE SAN	ANTONI	.0		AIR TRAFFIC CONTROL TOWER					
LACKLAND AIR FO	RCE BA	ASE SITE # 1							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/1	PROJE	COST (\$000)				
27576		149-962	2461/	KELL1	23018	1	0,000		
		9. C	OST ESTIMA	TES					
		ттем		TT/M	OUANTITY	UNIT	COST		
					QUILITI		(\$000)		
PRIMARY FACILIT	IES						5,795		
CONTROL TOWER				SM	586	9,696	(5,682)		
SUSTAINABILITY	& ENE	RGY MEASURES		LS			(114)		
SUPPORTING FACIN	LITIES						2,957		
UTILITIES				LS			(857)		
SITE IMPROVEME	NTS			LS			(150)		
PAVEMENTS				LS			(274)		
SPECIAL FOUNDA	TIONS			LS			(40)		
DEMOLITION				SM	708	1,276	(904)		
BACKUP GENERAT	OR			LS			(200)		
COMMUNICATIONS				LS			(532)		
SUBTOTAL						-	8,752		
CONTINGENCY	(5.0%))					438		
TOTAL CONTRACT (COST					=	9,190		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				524		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)			_	350		
TOTAL REQUEST							10,064		
TOTAL REQUEST (1	ROUNDE	D)					10,000		
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				(959)		
10. Descripti	on of	Proposed Construc	ction: Con	nstru	ct an Air	Traffic Con	trol Tower		
(ATCT) with re	infor	ced concrete pile	foundation	n and	slab floc	or, masonry	walls and		
standing seam	metal	roof. This project	ct include:	s an	elevator,	a catwalk s	urrounding		
foundations, a	as we back	up power generator	and all o	other	work nece	essarv to pro	vide a		
complete and u	sable	facility. This pr	coject will	l dem	olish two	facilities	(708 SM).		
Facilities wil	l be	designed as permar	nent const	ructi	on in acco	ordance with	the DoD		
Unified Facili	ties	Criteria (UFC) 1-2	200-01, Gen	neral	Building	Requirement	s and UFC		
1-200-02, High	Perf	ormance and Sustai	inable Bui	lding	Requireme	ents. This	project		
will comply wi	.th Do	D Antiterrorism/ic	prce prote	etion	requireme	ents per UFC	4-010-01.		
Air Conditioni	Air Conditioning: 10 Tons								
	LI. Requirement: 586 SM Adequate: 0 SM Substandard: 433 SM								
PROJECT: AIT	ROJECT: Air Trainic Control tower (Current Mission)								
CONSOLES, prec	onsoles, precision approach status indicators, and work space for air traffic								
controllers an	ontrollers and staff members. The control tower directly supports the 149th								
Fighter Wing,	ighter Wing, 433d Airlift Wing, 775th Aeromedical Evacuation Flight, Port San								
Antonio, and n	early	4,000 transient a	aircraft og	perat	ions each	year. Serv	ice is		
provided to al	l air	craft operating wi	ithin 5 mi	les o	f Joint Ba	ase San Anto	nio-		

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Page No.

1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE JOINT BASE SAN ANTONIO AIR TRAFFIC CONTROL TOWER LACKLAND AIR FORCE BASE SITE # 1 TEXAS 5. PROGRAM ELEMENT 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) 6. CATEGORY CODE 27576 149-962 2461/KELL123018 10,000 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.

<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 noncompliance 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.

<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.

ADDITIONAL: 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.

1. COMPONENT AIR FORCE	COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE IR FORCE (computer generated)									
3 TNSTALLATT		CATTON		4 PPO	דדירידי	TT &				
				1. FRO						
JOINT BASE SA	N ANTONIC			AIR TR	AFFIC C	ONTROL TOWER				
TEXAS	FURCE DAS	E SIIE # I								
						0				
5. PROGRAM EL	EMENT	6. CATEGORY	CODE 7.	PROJECT 1	NUMBER	8. PROJECT CC	DST (\$00	10)		
27576		149-962	24	61/KELL1	23018	10,	,000			
12. SUPPLEMEN	TAL DATA	:								
a. Estimate	d Design	Data:								
(1) Proje	ct to be	accomplished	by design	-build p	rocedur	es				
(2) Basis	:									
(a) St	andard of	r Definitive 1	Design -	_			NO			
(b) Wh	nere Desig	yn Was Most R	ecently U	sed -						
(3) All O	ther Desi	gn Costs					400			
(4) Const	ruction C	ontract Award	L				18 AUG			
(5) Const	ruction S	tart					18 SEP			
(6) Const	ruction C	ompletion					20 MAR			
(7) Energ	y Study/L	ife-Cycle ana	lysis was	/will be	perfor	med	YES			
b. Equipmen	nt associa	ated with this	s project	provided	l from c	ther appropri	ations:	:		
				-						
					FISC	AL YEAR				
FOILTDMENT		TIDE	PROCURIN	G APPRC	APPRO	PRIATED	CO: (\$ 0)	ST OO)		
EUDNIEUDI			24	0.0			(00)	50, 50		
FURNITURE	COMPOSIT	ES AND EQMI	34	00	2	.018		24		
	CONTROL I	EQUIPMENT	34	00	2	2018	0	34 75		
COMMUNICA	AIIONS EQ	JIPMENI	54	00	2	1018		/5		

1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE										
AIR FORCE		((computer gen	erate	d)					
3. INSTALLATION, JOINT BASE SAN 2 LACKLAND AIR FOR TEXAS	, SITI ANTON RCE B	E AND LOCATION IO ASE SITE # 1		4. PF BMT R	ROJECT TITLI	E MITORY 7	1			
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PI	ROJECI	NUMBER	8. PROJECT C	OST (\$000)			
85976		721-311	2461/MI	PLS083	737R7	90,	,130			
		9.	COST ESTIMA	TES						
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)			
PRIMARY FACILITI	ES						65,587			
RECRUIT DORMITO	RECRUIT DORMITORY (721-311) SM 21,121 2,451 (51,772)									
MTI ADMINISTRAI	IVE S	SPACE (171-627)		SM	1,261	2,887	(3,641)			
TRAINING/FORMAT	TON C	OPEN SPACE (179-371))	SM	3,283	2,298	(7,544)			
WEAPONS CLEANIN	IG PAN	/ILION (145-921)		SM	465	2,890	(1,344)			
SUSTAINABILITY	AND H	ENERGY MEASURES		LS			(1,286)			
SUPPORTING FACIL	ITIES	ł					15,623			
SPECIAL DRILLED) PIEF	R FOUNDATION		LS			(787)			
SITE IMPROVEMEN	ITS			LS			(1,923)			
UTILITIES				LS			(3,070)			
PAVEMENTS				LS			(2,835)			
COMMUNICATIONS	INFR	ASTRUCTURE		LS			(200)			
DEMOLITION				SM	40,725	167	(6,807)			
SUBTOTAL							81,209			
CONTINGENCY	(5	5.0%)					4,060			
TOTAL CONTRACT C	OST					-	85,270			
SUPERVISION, INS	PECTI	ON AND OVERHEAD	(5.7%)				4,860			
TOTAL REQUEST						-	90,130			
TOTAL REQUEST (R	OUNDE	:D)					90,130			
EQUIPMENT FROM O	THER	APPROPRIATIONS (NON	I-ADD)				(2,750)			
10. Description (BMT) Recruit I methods to accord story and will steel frame, main include administ weapons cleaning	(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	emolishes three buildings (40,725 SM). Facilities will be designed as permanent									
construction in	n acc	ordance with the	DoD Unified	l Fac	ilities Cr	iteria (UFC)	1-200-01,			
General Buildin	ng Re	equirements and UH	C 1-200-02	, Hig	h Performa	nce and Sust	ainable			

Air Conditioning: 450 Tons

protection requirements per UFC 4-010-01.

11. Requirement: 235564 SM Adequate: 120847 SM Substandard: 133482 SM PROJECT: Construct BMT Recruit Dormitory 7 (Current Mission)

Building Requirements. This project will comply with DoD Antiterrorism/force

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 FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE JOINT BASE SAN ANTONIO BMT RECRUIT DORMITORY 7 LACKLAND AIR FORCE BASE SITE # 1 TEXAS 5. PROGRAM ELEMENT 6. CATEGORY CODE 8. PROJECT COST (\$000) 7. RPSUID/PROJECT NUMBER 85976 721-311 2461/MPLS083737R7 90,130

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 & Training (RH&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&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.

CURRENT SITUATION: RH&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&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 espirit 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&Ts require significant O&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&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.

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&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&T facilities to meet current antiterrorism/force protection (AT/FP) criteria.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." A full Economic Analysis was performed

1. COMPONENT	FY 2018 MIL:	FY 2018 MILITARY CONSTRUCTION PROJECT DATA						
AIR FORCE		(computer generated)						
3. INSTALLATION	ALLATION, SITE AND LOCATION 4. PROJECT TITLE							
JOINT BASE SAN	ANTONIO	MITORY 7						
LACKLAND AIR FO	RCE BASE SITE # 1							
TEXAS								
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)					
85976	721-311	90,130						

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&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

1. COMPONENT AIR FORCE		FY 2018 MILITA	RY CC mpute)NSTRUC	TION PRO	OJECT	DATA	2. DATE		
2 TNOWALLAWL			-		4 550					
5. INSTRUMATI		OCATION			4. PRO					
LACKLAND AIR	N ANTONI	.O LSE SITE # 1			BMT REC	CRUIT	DORMITORY 7			
5. PROGRAM EL	EMENT	6. CATEGORY C	ODE	7. PRO	JECT NUN	MBER	8. PROJECT C	OST (\$000)		
85976		721-311		2461/M	PLS0837	37R7	90,1	30		
12. SUPPLEMEN	TAL DATA	A:								
a. Estimate	d Design	n Data:								
(1) Statu	(1) Status:									
(a) Da	te Desig	n Started					0	1-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) Da	te Desig	n Complete	1		. /		.0 	L-SEP-17		
(I) En	(f) Energy Study/Life-Cycle analysis was/will be performed YES									
(2) Basis	:									
(a) St	andard o	or Definitive De	esign	_				NO		
(b) Wh	ere Desi	ign Was Most Red	centl	y Used	-					
(3) Total	Cost (c	(a) = (a) + (b) c	or (d) + (e)	:			(\$000)		
(a) Pr	oduction	n of Plans and S	Speci	ficatio	ons			5,408		
(b) Al	l Other	Design Costs						2,704		
(c) Tc	tal							8,112		
(d) Co	ntract							6,760		
(e) In	-house							1,352		
(4) Const	ruction	Contract Award						18 FEB		
(5) Const	ruction	Start						18 MAR		
(6) Const	ruction	Completion						20 MAR		
* Indicat which i cost an	es compl s compar d execut	letion of Projec Table to traditi Tability.	ct De ional	finitic 35% de	on with asign to	Param ensu	etric Cost E re valid sco	stimate ce,		
b. Equipmen	it associ	ated with this	proj	ect pro	ovided f	from c	ther appropr	iations:		
EQUIPMEN'	I NOMENC	LATURE	PI APP	ROCURIN ROPRIAI	g 'ION	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED	COST (\$000)		
WALL LOCI	KERS AND	FURNISHINGS		3400		2	019	2,560		
AUTOMATED DATA PROCESSING 3400 2019							190			

1. COMPONENT	FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DAT									
AIR FORCE	(computer generated)									
3. INSTALLATION, SI	TE AND LOCATION	4. PROJECT TITLE								
JOINT BASE SAN ANTO LACKLAND AIR FORCE TEXAS	NIO BASE SITE # 1	BMT CLASSROOMS/DINING FACILITY 4								
5. PROGRAM ELEMENT	6. CATEGORY CODE	ROJECT	NUMBER	8. PROJECT (COST (\$000)					
85976	171-621	2461/ME	PLS083	73754	3	8,000				
	9.	TES	I							
	TTEM		∪/м	OUANTITY	UNIT	COST				
						28 152				
PMT OF ACCOUNT (17)	1 601)		CM	5 619	2 898	(16 291)				
DINING FACILITY (7)	1-021) 22-351)		SM	4,200	2,695	(10,201)				
SUSTATNABILITY AND	ENERGY MEASURES		LS	1,200	2,000	(552)				
SUPPORTING FACILITIE	ES					5,656				
SPECIAL DRILLED PI	ER FOUNDATION		LS			(451)				
SITE IMPROVEMENTS			LS			(1,020)				
UTILITIES			LS			(3,553)				
PAVEMENTS			LS			(354)				
COMMUNICATIONS INF	RASTRUCTURE		LS			(278)				
SUBTOTAL						33,808				
CONTINGENCY	(5.0%)					1,690				
TOTAL CONTRACT COST						35,499				
SUPERVISION, INSPECT	FION AND OVERHEAD	(5.7%)				2,023				
TOTAL REQUEST						37,522				
TOTAL REQUEST (ROUNI	DED)					38,000				
EQUIPMENT FROM OTHER	R APPROPRIATIONS (NON	I-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										
DD FORM 1391 DEC	am. Each satellite	e facility w	vill :	obsolete	new recruit	Page No.				

1. COMPONENT

AIR FORCE

(computer generated)

4. PROJECT TITLE BMT CLASSROOMS/DINING FACILITY 4

JOINT BASE SAN ANTONIO											
LACKLAND	AIR	FORCE	BASE	SITE	#	1					
TEXAS											

3. INSTALLATION, SITE AND LOCATION

TEXAS			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
85976	171-621	2461/MPLS083737S4	38,000

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.

CURRENT SITUATION: RH&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&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 espirit 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&Ts require significant O&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&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&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&T building and need to be centralized to improve efficiency and accommodate new equipment. 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&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. 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 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 FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE												
2 TNCTALLAT				<u>jene</u>	4 550							
JOINT BASE SA LACKLAND AIR TEXAS	JOINT BASE SAN ANTONIO BMT CLASSROOMS/DINING FACILITY 4 LACKLAND AIR FORCE BASE SITE # 1 TEXAS											
5. PROGRAM EL	EMENT	6. CATEGORY C	ODE	7. PRO	JECT NU	MBER	8. PROJECT CO	OST (\$000)				
85976 171-621 2461/MPLS083737S4 38,000												
12. SUPPLEMENTAL DATA:												
a. Estimate	d Design	n Data:										
(1) Statu	s:											
(a) Date Design Started 01-JUL-16												
(b) Pa	rametrio	Cost Estimates	s use	d to de	evelop	costs		YES				
* (c) Pe	ercent Co	omplete as of 03	1 JAN	2017				15%				
* (d) Da	te 35% I	Designed					01	-MAR-17				
(e) Da	te Desig	yn Complete					01	-SEP-17				
(f) En	ergy Stu	udy/Life-Cycle a	analy	sis was	s/will]	be per	formed	YES				
(2) Basis	•											
(1) St	andard o	or Definitive De	esian	-				NO				
(b) Wh	ere Desi	ign Was Most Red	centl	y Used	-			10				
(3) Total	Cost (c	(a) = (a) + (b)	or (d) + (e)):			(\$000)				
(a) Pr	oduction	n of Plans and s	Speci	ficatio	ons			2,280				
(b) Al	1 Other	Design Costs						1,140				
(c) To	tal							3,420				
(d) Co	ntract							2,850				
(e) In	-house							570				
(4) Const	ruction	Contract Award						18 FEB				
(5) Const	ruction	Start						18 MAR				
(6) Const	ruction	Completion						20 MAR				
* Indicat which i cost an	es compl s compar d execut	letion of Projec rable to tradit: rability.	ct De ional	finitic 35% de	on with esign to	Param o ensu	etric Cost Es re valid scop	timate De,				
b. Equipmen	it associ	ated with this	proj	ect pro	ovided :	from c	ther appropri	ations:				
EQUIPMEN	I NOMENC	LATURE	PI APP	ROCURIN ROPRIAI	G IION	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED	COST (\$000)				
CLASSROOM	M FURNIS	HINGS		3400		2	019	400				
DINING FU	JRNISHIN	GS		3400		2	:019	1,284				
AUTOMATEI	AUTOMATED DATA PROCESSING 3400 2019											

1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROGRAM									2. DATE (YYYMMDD)				
3. INSTALLATION AND LOCATION	4. COMMAND								5. AREA CONSTRUCTION				
Joint Base San Antonio - Fort S TEXAS	am Hous	ton		AIR ED COMMAN	UCATION D	AND TR	AINING		COST	INDEX			
6. PERSONNEL	(1) I	PERMAN	ENT	(2) STUDENTS			(3) SUPPOR		TED	TOTAL			
30-Sop-16	2590	ENLISTED	CIVILIAN	OFFICER 775	5927	CIVILIAN	160	1550		26 742			
a. AS OF 30-36P-10	2758	5959	5629	897	4686	55	612	8179	5989	34 764			
7. INVENTORY DATA (\$000)	2750	5959	5029	091	4000	55	012	01/9	5969	51,701			
a. TOTAL ACREAGE	30,929									0 005 000			
b. INVENTORY TOTAL AS OF c. AUTHORIZATION NOT YET IN INV	30-Sep-	-16								2,935,802			
d. AUTHORIZATION REQUESTED IN	THIS P	ROGRAN	(FY 201	8)						18,500			
e. PLANNED IN NEXT FOUR PROGE f. REMAINING DEFICIENCY	RAM YEA	RS (FY 2	2019-202	2)						130,200			
g. GRAND TOTAL										3,084,502			
8. PROJECTS REQUESTED IN THIS PR	OGRAM	(FY 2018) TEGOR	() (b. C	COST	c. DESIGN STATUS			
(1) CODE (2) PR	OJECT T	ITLE			(3) SCOP	E	(\$0	000)	(1) START (2) COMPLETE			
722-351 Camp Bullis Dining Fac	cility					3,410	SM	18,	500	Design/Build			
							TOTAL	10	500				
9. FUTURE PROJECTS IN NEXT FOUR	PROGR	AM YEAF	S (FY20	19 - FY2)22)		TOTAL	18,	500				
				FU	ITURE PF	ROJECT	S TOTAL		0				
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	0	.3				
The 502nd Air Base Wing (ABW) i locations; JBSA-Lackland, JBSA- ABW provides installation suppo responsible for a variety of mi	10. MISSION OR MAJOR FUNCTIONS The 502nd Air Base Wing (ABW) is the host wing for Joint Base San Antonio (JBSA) which is comprised of three primary locations; JBSA-Lackland, JBSA-Randolph, JBSA-Fort Sam Houston as well as eight other operating locations. The 502 ABW provides installation support services to more than 200 Department of Defense mission partners who are responsible for a variety of missions to include; training, flying, cyber, intelligence and health care.												
11. OUTSTANDING POLLUTION AND S		PEFICIEN		¥ 2018-20)22)								
a. Air Pollution													
b. Water Pollution													
c. Occupational Safety and Health													
d. Other Environmental													
			001	STANDI	NG DEFIC		S TOTAL		0				
DD Form 1390, JUL 1999			PRE	VIOUS E	DITION IS	S OBSOL	ETE.						

-												
1. COMPONENT		2. DATE										
3. INSTALLATION	, SITE	AND LOCATION	4. PI	ROJECT TITLE	5							
JOINT BASE SAN	ANTONI			CAMP	BULLIS DINI	NG FACILITY						
CAMP BULLIS TRA	INING	ANNEX SITE # 1										
TEXAS												
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)					
27576		722-351	4236	CYRB/	205940		18,500					
9. COST ESTIMATES												
						UNIT	COST					
		ITEM		U/M	QUANTITY		(\$000)					
PRIMARY FACILIT	IES						11,878					
AIRMAN DINING	HALL			SM	3,410	3,415	(11,645)					
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(233)					
SUPPORTING FACE	LITIES						4,001					
UTILITIES				LS			(876)					
SITE IMPROVEME	NTS			LS		l l	(383)					
PAVEMENTS				LS			(356)					
COMMUNICATIONS				LS			(258)					
DEMOLITION				SM	4,594	225	(1,031)					
RELOCATE WAREH	OUSE			SM	465	2,359	(1,097)					
SUBTOTAL						-	15,879					
CONTINGENCY	(5.0%)					794					
TOTAL CONTRACT	COST					-	16,673					
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				950					
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				635					
TOTAL REQUEST						=	18,259					
TOTAL REQUEST (1	ROUNDE	D)					18,500					
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				800					
10 Descripti	on of	Bropoged Constru	ation. Co	netru	l at a dinir	a fagility	for 1300 to					
1500 personnel	10 110. 1. te	oint Base San Anto	onio (JIBSA) - ('amp Bullis	and reloca	te an					
existing wareh	louse	that is in the for	otprint of	, the	dining fac	ility. Cons	truction					
includes reinf	orced	l concrete foundati	ions, stru	ctura	l steel fr	ame with sp	lit faced					
concrete mason	ry un	it veneer and a st	tanding se	am me	tal roof.	- The projec	t includes					
utilities, sit	e imp	provements, pavement	nts, commu	nicat	ions infra	structure a	nd all					
other work neo	essar	y to make complete	e and usea	ble f	acilities.	The proje	ct will					
demolish 17 bu	ildin	gs (4,594 SM). Fac	cilities w	ill b	e designed	l as permane	nt					
construction i	n acc	ordance with the I	DoD Unifie	d Fac	ilities Cr	iteria (UFC) 1-200-01,					
General Buildi	.ng Re	quirements and UFC	2 1-200-02	, Hig	h Performa	ince and Sus	tainable					
Building Requi	remen	ts. This project	will comp	ly wi	th DoD Ant.	iterrorism/	force					
protection req	uirem	ents per UFC 4-010	0-01.									
Air Conditioni	ng:	20 Tons										
11. Requirement	t: 34	10 SM Adequate	- 11 Requirement: 3410 SM Adequate: 0 SM Substandard: 3344 SM									

<u>PROJECT:</u> Joint Base San Antonio - Camp Bullis Dining Facility (Current Mission) <u>REOUIREMENT</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

DD FORM 1391, DEC 99

Previous editions are obsolete.

Page No.

1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA								
AIR FORCE		(computer generated)								
3. INSTALLATION	, SITE	4. PROJECT TITLE								
JOINT BASE SAN	ANTONI	0	CAMP BULLIS DINING FACILITY							
CAMP BULLIS TRA	INING	ANNEX SITE # 1								
TEXAS										
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	PROJECT COST (\$000)				
27576		722-351	4236/CYRB205940 18,500							

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.

<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.

<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.

<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.

1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE										
	(com	puter gen	erated)							
ON AND I	LOCATION		4. PROJECT I	ITLE						
AN ANTONI	0		CAMP BULLIS	DINING FACILIT	Y					
RAINING	ANNEX SITE # 1									
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJE										
27576 722-351 4236/CYRB205940 18,500										
NTAL DAT	A:									
ed Design	n Data:									
ct to be	accomplished by	design-	ouild procedu	ires						
:										
tandard here Des	or Definitive Des ign Was Most Rece	sign - ently Use	d -		NO					
ther Des	ign Costs				555					
ruction	Contract Award				18 AUG					
ruction	Start				18 SEP					
ruction	Completion				20 MAR					
y Study/	Life-Cycle analy	sis was/	will be perfo	ormed	YES					
T NOMENC	P	ROCURING	FIS APPRC APPI OR 1	CAL YEAR ROPRIATED REQUESTED	COST (\$000)					
ACILITY	EQUIPMENT	308)	2019	400					
ACILITY	FURNISHINGS	340)	2019	400					
	CON AND I AN ANTONI TRAINING LEMENT NTAL DAT. ed Design ect to be s: tandard of here Des Other Des Other Des Truction ruction ruction ruction T NOMENC: ACILITY ACILITY	FY 2018 MILITAR (com CON AND LOCATION AN ANTONIO TRAINING ANNEX SITE # 1 CEMENT 6. CATEGORY CO 722-351 NTAL DATA: ed Design Data: ect to be accomplished by s: tandard or Definitive Design Costs truction Contract Award cruction Contract Award cruction Start truction Completion by Study/Life-Cycle analy ant associated with this p T NOMENCLATURE ACILITY EQUIPMENT ACILITY FURNISHINGS	FY 2018 MILITARY CONSTRUCT (computer gen CON AND LOCATION AN ANTONIO TRAINING ANNEX SITE # 1 LEMENT 6. CATEGORY CODE 7. FR 722-351 4230 NTAL DATA: 4230 ed Design Data: 4230 NTAL DATA: 4230 ed Design Data: 4230 ext to be accomplished by design-H 4230 s: 1 tandard or Definitive Design - 4230 here Design Was Most Recently Use 50 other Design Costs 50 cruction Contract Award 51 cruction Start 51 cruction Completion 51 mt associated with this project p 51 PROCURING 7080 ACILITY EQUIPMENT 3080 ACILITY FURNISHINGS 3400	FY 2018 MILITARY CONSTRUCTION PROJECT (computer generated) CON AND LOCATION 4. PROJECT T CAMP BULLIS IN ANTONIO CAMP BULLIS TRAINING ANNEX SITE # 1 CAMP BULLIS LEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 4236/CYRB205940 NTAL DATA: 4236/CYRB205940 NTAL DATA: 500 add Design Data: 500 ict to be accomplished by design-build procedu 500 ict to Contract Award 500 ictuation Completion 500 mt associated with this project provided from 600 ACILITY EQUIPMENT 3080 ACILITY FURNISHINGS 3400	FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated) CON AND LOCATION 4. PROJECT TITLE CAMP BULLIS DINING FACILIT IN ANTONIO CAMP BULLIS DINING FACILIT TRAINING ANNEX SITE # 1 CAMP BULLIS DINING FACILIT LEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT CONTACT NUMBER LEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT CONTACT NUMBER LEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT CONTACT NUMBER LEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT CONTACT CONTACT NUMBER LEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT CONTACT CONTACT NUMBER NTAL DATA: Bad Design Data: 4236/CYRB205940 18 NTAL DATA: Bad Design Data: 5. 18 Int and or Definitive Design - Fere Design Costs 5. Cruction Completion Truction Completion 5. 18 Type Study/Life-Cycle analysis was/will be performed 11 13 Ant associated with this project provided from other appropriate OR REQUESTED 14 15 ACILITY FURNISHINGS 3400 2019 2019 2019 201					

1. COMPONENT										2. DATE	DATE (YYYMMDD)				
											0				
HILL AIR FORCE BASE										COST INDEX					
UTAH					AIR FO	RCE MATI	ERIAL C	OMMAND			1.06				
6. PERSONNEL		(1)	PERMAN ENLISTED		(2) OFFICER			(3)	SUPPOR ENLISTED		TOTAL				
a. AS OF	30-Sep-16	320	1172	9915	01110Ell		0.7.L. ut	283	3182	705	15,577				
h END FY	2022	321	1171	9546				308	3337	700		15,383			
7. INVENTORY	DATA (\$000)														
a. TOTAL AC	REAGE	961,92	5 Main	Base:	6,946	Little	Mountai	in Test	Compour	nd: 740	UTTR: 954,	239			
b. INVENTOR	Y TOTAL AS OF	30-Sep	-16									3,650,398			
c. AUTHORIZ	ATION NOT YET IN IN	ENTOR			0)							83,083			
e. PLANNED	IN NEXT FOUR PROG	RAM YEA	RS (FY 2	2019-202	<u>8)</u> 2)							28,000			
f. REMAINING	G DEFICIENCY				_/							364,475			
g. GRAND TO	TAL											4,125,956			
8. PROJECTS RE	QUESTED IN THIS PR	OGRAM	(FY 2018)	3) v					b 0	OST I					
(1) CODE	(2) PR	OJECT T	ITLE	I		· · · ·	3) SCOP	E	(\$0	001	(1) START	(2) COMPLETE			
317-315 UTTR	Consolidated Miss	sion Con	ntrol C	enter		4	4,851 S	M	28,	000	03/17	05/18			
								TOTAL	28,	000					
					FU	JTURE P	ROJECT	S TOTAL	(0					
R&M UNFUNDED	REQUIREMENT (\$M)							TOTAL	13	.6					
10. MISSION OR	MAJOR FUNCTIONS														
Ogden Air Log active duty 38 personnel. The	oversees more than istics Complex, Ai 38th and Reserve 4 e base also has su	r Force 19th Fi pport r	facilit Life (ghter W esponsi	ies val Cycle Ma Nings ar bility	anagement anagement ad more for the	\$4 bil. nt Cente than 50 e operat	lion wh er, Air) missi tion of	Ile pro Force on part the Ut	viding Nuclear ners th ah Test	Installa Weapons at emplo and Tra	ation suppo s Center, A oy more tha: aining Rang	rt for the ir Force n 21,000 e.			
11. OUTSTANDI	NG POLLUTION AND S	SAFETY	DEFICIEN	ICIES (F	Y 2018-2	022)									
a. Air Pollutio b. Water Poll	on ution														
c. Occupatio	nal Safety and Health														
d. Other Envi	ironmental														
				ουτ	STANDI	NG DEFI		S TOTAL	(0					
1. COMPONENT	1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE						2. DATE								
---------------------	---	---------------------	---------------	---------------	-------------	---------------	-----------------	--	--						
AIR FORCE			(computer gen	erate	d)										
3. INSTALLATION	, SITI	E AND LOCATION		4. PF	OJECT TITL	Ξ									
HILL AIR FORCE	HILL AIR FORCE BASE				CONSOLIDATE	ED MISSION CO	NTROL CENTER								
HILL AFB SITE #	1														
UTAH		1													
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT	COST (\$000)								
27576		317-315	2349/1	KRSM12	3009	2	28,000								
		9.	COST ESTIMA	TES											
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)								
PRIMARY FACILITI	EES						17,950								
CONSOLIDATED M	ISSION	V CONTROL CENTER (3	17-315)	SM	4,795	3,501	(16,788)								
REPEATER STATI	ON SIT	TE (134-335)		SM	56	14,457	(810)								
SUSTAINABILITY	AND E	ENERGY MEASURES		LS			(352)								
SUPPORTING FACII	LITIES						7,698								
UTTLTTTES				T.S			(1 421)								
PAVEMENTS				T.S			(636)								
SITE IMPROVEMEN	NTS			LS			(377)								
COMMUNICATION	SUPPOR	RТ		LS			(3,195)								
DEMOLITION				SM	4,117	406	(1,674)								
EMERGENCY BACK	UP POV	VER GENERATOR		LS	_,		(396)								
SUBTOTAL							25,648								
CONTINGENCY	(5	.0%)					1,282								
TOTAL CONTRACT (COST					-	26,931								
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				1,535								
TOTAL REQUEST						-	28,466								
TOTAL REQUEST (F	ROUNDE	D)					28,000								
EQUIPMENT FROM (THER	APPROPRIATIONS (NON	1-ADD)				(5,850)								
10. Descripti	on of	Proposed Constru	uction: Con	nstru	ct a Missi	on Control	Center								
utilizing econ	omica	l design and cons	struction me	ethod	s to accom	modate the :	mission of								
the facility.	Faci	lities will be co	onstructed w	with :	reinforced	l concrete f	ootings,								
foundation, st	ructu	ral steel frame w	with insulat	ted s	plit-face	concrete ma	sonry unit								
veneer walls a	nd an	insulated stands	ing seam me	tal r	oof. The p	project incl	udes								
classified sto	rage,	communications i	infrastruct	ire,	air condit	ioning, spa	ce for								
uninterruptabl	e pow	er systems, emerg	gency backuj	p pow	er generat	or, microwa	ve								
communications	by I roggi	eans of a tower a	at least 50	' nig	n, intrusi	on detectio	n, Ilre								
pavement, and	all c	ther required sur	oporting fac	, s⊥ ∵ilit	ies for a	complete an	d usable								
facility. The	proje	ct includes demol	lition of the	nree	facilities	(4117 SM).	a ababie								
- Facilities wil	l be	designed as perma	anent consti	ructi	on in acco	rdance with	the DoD								
Unified Facili	ties	Criteria (UFC) 1-	-200-01, Gen	neral	Building	Requirement	s and UFC								
1-200-02, High	Perf	ormance and Susta	ainable Bui	lding	Requireme	ents. This	project								
will comply wi	th Do	D Antiterrorism/f	Eorce prote	ction	requireme	ents per UFC	4-010-01.								
Air Conditioni	ng:	130 Tons													
11. Requiremen	t: 84	49 SM Adequate	e: 3055 SM	Su	bstandard:	4117 SM									
PROJECT: Utah	Test	and Training Ram	nge (UTTR)	Conso	lidated Mi	ssion Contr	ol Center								
(Current Missi	on)														
REQUIREMENT:	A con	solidated Mission	n Control Ce	enter	with stat	e-of-the-ar	t equipment								

Previous editions are obsolete.

 1. COMPONENT
 FY 2018 MILITARY CONSTRUCTION PROJECT DATA
 2. DATE

 AIR FORCE
 (computer generated)
 2. DATE

 3. INSTALLATION, SITE AND LOCATION
 4. PROJECT TITLE

 HILL AIR FORCE BASE
 UTTR CONSOLIDATED MISSION CONTROL CENTER

 HILL AFB SITE # 1
 0

 UTAH
 6. CATEGORY CODE
 7. RPSUID/PROJECT NUMBER
 8. PROJECT COST (\$000)

2349/KRSM123009

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.

317-315

CURRENT SITUATION: 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. IMPACT IF NOT PROVIDED: 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.

ADDITIONAL: 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

27576

28,000

1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA					
AIR FORCE		(computer generated)					
3. INSTALLATION	3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE						
HILL AIR FORCE BASE				UTTR CONSOLIDATED MISSION CONTROL CENTER			
HILL AFB SITE # 1							
UTAH							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CO	OST (\$000)	
27576		317-315	2349/1	,000			

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.

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	NENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE		(co	mpute	er gene	rated)				
3. INSTALLATI	ON AND L	OCATION			4. PROJ	ECT I	TITLE		
HILL AIR FORC HILL AFB SITE UTAH	E BASE # 1				UTTR CO CENTER	NSOLI	IDATED MISSION	I CONTROL	
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT CO)ST (\$000)	
27576	,000								
12. SUPPLEMEN	12. SUPPLEMENTAL DATA:								
a. Estimate	a. Estimated Design Data:								
(1) Statu	s:								
(a) Da	te Desig	n Started					01	-MAR-17	
(b) Pa	rametric	Cost Estimates	s use	d to de	evelop co	osts		YES	
* (c) Pe	rcent Co	omplete as of 0	1 JAN	2017				65%	
* (d) Da	te 35% I	Designed					01	-SEP-17	
(e) Da	te Desig	n Complete	_				01	-MAY-18	
(f) En	ergy Stu	dy/Life-Cycle a	analy	sis was	s/will be	e per	formed	YES	
(2) Basis	:								
(a) St	andard o	or Definitive De	esian	. –				NO	
(b) Wh	ere Desi	ign Was Most Red	centl	y Used	-				
(3) Total	Cost (c	(a) = (a) + (b)	or (d) + (e)	:			(\$000)	
(a) Pr	(a) Production of Plans and Specifications								
(b) Al	1 Other	Design Costs	-					870	
(c) To	tal							2,610	
(d) Contract							2,175		
(e) In	-house							435	
(4) Const	ruction	Contract Award						18 AUG	
(5) Const	ruction	Start						18 SEP	
(6) Const	ruction	Completion						20 AUG	
* Indicat which i cost an	es compl s compar d execut	letion of Project rable to tradit: rability.	ct De ional	finitic 35% de	on with H esign to	Param ensu	etric Cost Es re valid scop	timate e,	
b. Equipmen	t associ	lated with this	proj	ect pro	ovided fi	rom o	ther appropri	ations:	
EQUIPMEN	I NOMENC	LATURE	PI APP	ROCURIN	G 2 ION (FISCA APPRO OR RE	AL YEAR PRIATED QUESTED	COST (\$000)	
TEST & E	ALUATIO	N EQUIPMENT		3080		2	018	5,000	
COMMUNIC	ATIONS E	QUIPMENT		3400		2	018	250	
FURNISHI	IGS			3400		2	018	200	
UNINTERRU	JPTED PO	WER SUPPLY		3080		2	018	150	
COMMANDE	COMMANDERS TACTICAL TERMINAL 3080 2018							250	
	COMMANDERS TACTICAL TERMINAL 3080 2018 250								

1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROGRAM							2. DATE	DATE (YYYMMDD)		
3. INSTALLATION AND LOCATION	I 4. COMMAND 5. ARE						5. AREA		ION			
FE WARREN AIR FORCE BASE				AIR FORG	E GLOBA	L STRI	KE COMM	AND	COST	INDEX		
6. PERSONNEL	(1)	PERMAN	ENT	(2)	STUDEN	rs	(3)	SUPPOR	TED	1.02		
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	10	IAL	
a. AS OF 30-Sep-16	467	2461	498	0	0	0	415	2218	725	6,784		
b. END FY 2022	463	2438	493	0	0	0	403	2178	2178 726 6,701			
7. INVENTORY DATA (\$000)	6 934											
b. INVENTORY TOTAL AS OF	30-Sep	-16									2,873,901	
c. AUTHORIZATION NOT YET IN INV	(100,550		
d. AUTHORIZATION REQUESTED IN PLANNED IN NEXT FOUR PROGE	I THIS PE	ROGRAN	(FY 201	<u>8)</u> 2)							62,000	
f. REMAINING DEFICIENCY	0 un 1 2/		010 2021	=/							0	
	OCRAM	/EV 2010)								3,036,451	
8. PROJECTS REQUESTED IN THIS PR	a. C	ATEGOR	Y					b. C	OST	c. DESIG	N STATUS	
(1) CODE (2) PF	ROJECT	TITLE			(3) SCOP	E	(\$0	000)	(1) START	(2) COMPLETE	
141-753 Consolidated Helo/TRF	Ops/AM	J and A	lert Fa	cility		13,238	SM	62,	000	07/16	09/17	
					2)		TOTAL	62,	000			
9. FUTURE PROJECTS IN NEXT FOUR	PROGR		(F 120	19-F1202	2)							
				FU	ITURE PI	ROJECTS	S TOTAL		0			
							TOTAT	14				
10. MISSION OR MAJOR FUNCTIONS							TOTAL	16	0.3			
Francis. E. Warren Air Force Ba Global Strike command. The miss Intercontinental Ballistic Miss maintains the missile fields ac operates 9 UH-1N Huey helicopte	se is h ion of ile (IC ross a rs that	ome to the 90t BM) for 12,600- perfor	the 90t h MW is ce. The square- m nucle	th Missil s to defe e 90th MW -mile are ear convo	e Wing end Amer Joperat a in Wy by secur	(MW) ar rica wit es 150 roming, rity and	nd Heade th the Minuter Nebras d missi	quarter world's man III ka, and le site	s, 20th premier ICBMs c Colorac support	Air Force of combat read on full aler do. The wing t.	of Air Force ady ct and g also	
11. OUTSTANDING POLLUTION AND S		PEFICIEN		¥ 2018-202	2)							
a. Air Pollution												
b. Water Pollution												
c. Occupational Safety and Health												
d. Other Environmental												
			οι	JTSTANDI	NG DEFIC		S TOTAL		0			
DD Form 1390, JUL 1999			PRI		DITION IS	OBSOL	ETE.					

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DAT	2. DATE		
AIR FORCE	(computer ge				d)			
3. INSTALLATION, SITE AND LOCATION			4. PROJECT TITLE					
FRANCIS E WARRE	N AIR	FORCE BASE		CONSC	LIDATED HEL	O/TRF OPS/AM	U AND ALERT	
F E WARREN AFB WYOMING	SITE #	: 1		FACILITY				
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	8. PROJECT COST (\$000)	
12110		141-753	1833/	GHLN9	83001A		62,000	
		9. 0	OST ESTIM	ATES		I		
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)	
							(\$000)	
HELICOPTER OPER	ATIONS	COMPLEX					43,773	
HELICOPTER/TRF	OPERA	TIONS 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	HANGA	R (3 BAY) (141-181)		SM	1,598	3,592	(5,740)	
AIRCRAFT MAINT	ENANCE	UNIT (AMU) (221-175	5)	SM	1,161	3,190	(3,704)	
AIRCRAFT MAINT	ENANCE	HANGAR (9 BAY) (211	111)	SM	4,601	2,661	(12,243)	
TACTICAL ALERT	VEHIC	LE FACILITY (853-101	.)	SM	300	2,173	(652)	
AIRCRAFT SIMUL	ATOR F	ACILITY (171-212)		SM	420	4,752	(1,996)	
AIRFIELD CRASH/RESCUE STATION (141-101)					670	3,632	(2,433)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(858)	
SUPPORTING FACI	LITIES						12,127	
AIRFIELD PAVEM	ENTS A	ND LIGHTING		LS			(6,940)	
DRIVEWAY / PAR	KING L	OT		LS			(319)	
UTILITIES				LS			(3,251)	
PRIVATIZED UTI	LITY C	ONNECTION FEE (ELECT	')	LS		ĺ	(20)	
COMMUNICATIONS				LS			(410)	
BACKUP GENERAT	OR			LS			(200)	
PASSIVE FORCE	PROTEC	TION MEASURES		LS			(987)	
SUBTOTAL						-	55,900	
CONTINGENCY	(5.0%))					2,795	
TOTAL CONTRACT (COST						58,695	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				3,346	
TOTAL REQUEST							62,040	
TOTAL REQUEST (1	ROUNDE	D)					62,000	
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				(1,238)	
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ct a new c	omplex to i	nclude	
Helicopter Squ	adron	Operations, Tacti	ical Respo	nse F	orce (TRF)	Alert Crew	Facility,	
Alert Aircraft	Shel	ter, Aircraft Main	ntenance U	nit (AMU), Airc	raft Mainte	enance	
Shelter, Aircr	aft S	imulator complex t	to include	a sa	tellite Fi	re Station	utilizing	
conventional d	lesign	and construction	methods t	o acc	ommodate m	ussion requ	irements in	
support of the	MINU	ilities will be a) intercon	tinen with	congrete	foundations	(ICBM)	
structural ste	n fac	ame, a combination	of concr	ete m	asonry uni	t and prefi	nished	
metal panels e	xteri	or walls and a sta	anding sea	m met	al roof. A	ssociated s	site	
improvements shall include new taxiwaya and			v he	lipade as	gogiated at	rfiold		

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

DD FORM 1391, DEC 99

Previous editions are obsolete.

Page No.

1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2.							
AIR FORCE		(c	omputer ger	nerated)					
3. INSTALLATION	, SITE	AND LOCATION	4. PROJECT TITLE						
FRANCIS E WARRE	N AIR	FORCE BASE		CONSOLIDATED HEL	O/TRF OPS/AMU	AND ALERT			
F E WARREN AFB	SITE #	: 1		FACILITY					
						/ * • • • •			
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	8. PROJECT CO)ST (\$000)				
12110		141-753	1833/	GHLN983001A	62	,000			
antiterrorism/	force	protection requir	cements pe	r Unified Facil	ities Criter	ia (UFC)			
and be designe	ed as	permanent construct	tion in a	ccordance with	the DoD UFC	1-200-01,			
General Buildi Building Regui	.ng ke remen	quirements; UFC 1-	-200-02, H	lign Periormance	and Sustaina	adle			
requirements a	ns def	ined in UFC 4-010-	-01.	b anciceriorism	Force proces	201011			
Air Conditioni	na•	75 Tons							
11 Requirement		214 SM Adequate		Substandard• 8	872 SM				
					W MIGGION)				
PROJECT: CONS		TE HELO/TRF OPS/AN	10 AND ALE	RT FACILITY (NE	W MISSION)				
REQUIREMENT:	An ao	equately sized and	1 CONFIGUR	red integrated n provide proper	elicopter op	antrol			
alert, mainter	ance.	and fueling capab	nilities f	or belicopter-c	apable secur	itv			
operations pro	vidin	g coverage to remo	ote ICBM m	issile alert an	d launch fac:	ilities.			
This is to be	a con	solidated facility	y that wil	l become the ma	in control p	oint for			
all unit fligh	nt and	flying training t	asks incl	uding planning,	briefing,				
administration	n, ale	rt response, life	support s	ystem, aircraft	maintenance	, crew			
equipment stor	age a	nd issue. The con	nplex must	provide colloc	ation of the	squadron			
operations fac	ility	and alert crew sl	leeping qu	arters with the	aircraft to	minimize			
crew response	times	and enhance rescu	1e/securit	y team effectiv	eness. Resp	onse time			
is critical wh	en pr	oviding security f	ior nuclea	r weapons trans	ports and co	nducting			
search and sec	urity	, rescue/civil aid	l missions	. The complex	must have fl:	ight line			
visibility for	cont	rol of ground trai	fic and a	ircraft storage	must be near	ted for			
Air Force Base	: uuri	th Helicopter Elic	The (37 HF) 90th Tactica	l Pesponse F	e. warren			
Squadron direc	tlv s	upports ICBM missi	ile alert	and launch faci	lity site se	curity by			
providing rapi	.d res	ponse/transport of	E Security	Forces personn	el and equip	ment from			
the base to th	ne mis	sile fields spread	- 1 over thr	ee states.					
CURRENT SITUAT	ION:	The 37 HF direct	lv support	s MM III ICBM m	issile alert	and			
launch facilit	y sit	e security and mis	ssile conv	oy operations c	overing 9,60	0 square			
miles. Additi	- .onall	y, the 37 HF condu	ucts searc	h and rescue mi	ssions through	ghout			
Wyoming, Color	ado,	and Nebraska for b	ooth milit	ary and civil a	uthorities.				
Helicopter ope	eratio	ons are currently o	conducted	from a facility	constructed	in 1941			
and later conv	verted	for use as an Atl	las ICBM m	aintenance hang	ar in 1958.	This			
structure is l	.aden	with asbestos-cont	aining ma	terials, lead b	ased paint, a	and is			
serviced with	an ag	ed and failing uti	ilities in	frastructure.	In addition,	it is not			
properly confi	.gured	to accommodate th	ie assigne	d UH-1N helicop	ters and is a	completely			
inadequate in	size	and configuration	for the r	eplacement hell	copters anti-	cipated			
(structural su	nnort	e warren AFB. Ine	structur	e's hangar door	s and interio	of the			
replacement he	licor	ter airframes. No	one of the	proposed repla	cement airfr	ames will			
fit in the cur	rent	facility due aircu	raft dimen	sions, rotor he	ad diameter.	and blade			
configuration	(2 vs	. 4) without impra	actical me	chanical disass	embly. If the	his			
building conti	nues	to be used for hel	licopter o	perations, a ma	jor MILCON r	enovation			
project will h	e req	uired. The renova	ation proj	ect cost has be	en estimated	at over			
75% of the rep	lacem	ent cost of a simi	ilar-sized	facility. In	addition to :	its			
inferior condi	tion	and poor layout, t	the curren	t facility affo	rds few prov	isions for			
					-				

DD FORM 1391, DEC 99 Previous editions are obsolete.

requirements.

1. COMPONENT

3. INSTALLATION, SITE AND LOCATION

FRANCIS E WARREN AIR FORCE BASE

AIR FORCE

Previous editions are obsolete.

Page No.

MAY	2017

available" basis; however, the scope of the project is based on Air Force

	150

security emergencies to the nation's strategic ground-based deterrent will be
impeded and expediencies 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.
ADDITIONAL: 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.
JOINT USE CERTIFICATION: This facility can be used by other components on an "as

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. <u>IMPACT IF NOT PROVIDED</u>: Without a new facility that combines Helicopter Squadron

Operation and Tactical Response Force facilities 24-hour alert responses to

 F E WARREN AFB SITE # 1
 FACILITY

 WYOMING
 5. PROGRAM ELEMENT

 6. CATEGORY CODE
 7. RPSUID/PROJECT NUMBER

 12110
 141-753

 1833/GHLN983001A
 62,000

4. PROJECT TITLE

CONSOLIDATED HELO/TRF OPS/AMU AND ALERT

1. COMPONENT AIR FORCE	NENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE E (computer generated)								
3. INSTALLATI	ON AND L	OCATION		4	PROTECT TI	TT.E	1		
FRANCIS E WAR F E WARREN AF WYOMING	REN AIR B SITE #	FORCE BASE		CO	NSOLIDATED	HELO/TRF OPS/	AMU AND		
5. PROGRAM EL	EMENT	6. CATEGORY C	CODE 7	. PROJI	ECT NUMBER	8. PROJECT C	OST (\$000)		
12110		141-753		1833/GI	ILN983001A	62	,000		
 12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Project to be accomplished by design-build procedures (2) Basis: 									
(2) Basis (a) St (b) Wh	 (a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used - 								
(3) All O	ther Des	ign Costs					1,860		
(4) Const:	ruction	Contract Award					18 FEB		
(5) Const:	ruction	Start					18 MAR		
(6) Const:	ruction	Completion					20 MAR		
(7) Energy	y Study/	Life-Cycle anal	lysis w	was/wil	l be perfo	rmed	YES		
b. Equipmen EQUIPMENT	t associ	ated with this	PROCU	ct prov RING AP	Fided from FISC PRC APPR OR R	other appropri TAL YEAR DPRIATED EQUESTED	COST (\$000)		
FURNISHIN	IGS, FIX	TURES & EQUIP		3400		18	1,238		

1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE						
AIR FORCE		(computer generated)						
3. INSTALLATION, SITE AND LOCATION				4. PF	ROJECT TITL	E	·	
WORLDWIDE LOCATION				KC-46	A MAIN OPE	RATING BASE 4		
	ENT						ጋርም (ሮ ዐዐዐ)	
5. PROGRAM ELEM	LEIN I	6. CATEGORY CODE	7. RPSUID/P	KOJECI	NUMBER	8. PROJECI CO	551 (\$000)	
41221		141-753	/ AM	C1800	01	,000		
	9. COST ESTIMATES							
						UNIT	COST	
		ITEM		U/M	QUANTITY		(\$000)	
PRIMARY FACILIT	IES						200,000	
KC-46A VARIOUS	FACII	LITIES, MOB#4		LS			(200,000)	
SUPPORTING FACII	LITIES						42,000	
SUPPORTING COS	TS			LS			(42,000)	
SUBTOTAL							242,000	
CONTINGENCY	(5	5.0%)					12,500	
TOTAL CONTRACT COST							254,500	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				14,500	
TOTAL REQUEST							269,000	
TOTAL REQUEST (F	ROUNDE	D)					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

Previous editions are obsolete.

1. COMPONENT AIR FORCE	FY 2018 MII	2. DATE					
3. INSTALLATION WORLDWIDE LOCAT	, SITE AND LOCATION ION	4. PROJECT TITLE KC-46A MAIN OPERATING BASE 4					
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/PROJ	ECT NUMBER	8. PROJECT CC	OST (\$000)		
41221	141-753 /AMC180001 269,000						

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.

CURRENT SITUATION: KC-46A aircraft deliveries are scheduled to begin at MOB #4 in second quarter FY20.

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.

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.

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.

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1. COMPONENT		FY 20	FY 2018 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYMMDD) 20160930		
3. INSTALLATION AND LOCATION				4. COM	MAND				5. AREA	CONSTRUCTION	
ROYAL AUSTRALIAN AIR FORCE DARW AUSTRALIA	IN			PACIFI	C AIR FO	ORCES			COST	INDEX 1.49	
6. PERSONNEL	(1)	PERMAN	ENT	(2)	STUDEN	ITS	(3)	SUPPOR	TED	TOTAL	
a AS OF 30-Sep-16	N/A			0			0 0			0	
b END EY 2022	N/A	0	0	0	0	0	0	0	0	0	
7. INVENTORY DATA (\$000)		Ť	-	-	-	Ť	-	-	-		
	0 30-Sep	-16							1	0	
c. AUTHORIZATION NOT YET IN INV	ENTOR	1								0	
d. AUTHORIZATION REQUESTED IN	THIS PR	ROGRAN	(FY 201	8) 2)						76,000	
f. REMAINING DEFICIENCY			013-202	2)						28,800	
g. GRAND TOTAL 8. PROJECTS REQUESTED IN THIS PR	OGRAM	(FY 2018	3)							104,800	
	a. CA	TEGOR	Y				_	b. C	OST	c. DESIGN STATUS	
(1) CODE (2) PR 124-135 APR - Bulk Fuel Storad	OJECT T re Tanks	ITLE			(3) SCOP 15,899	CM	(\$0 76,	000) 000	(1) START (2) COMPLETE	
	,					,	011	,		00/10	
							TOTAL	76,	000		
9. FUTURE PROJECTS IN NEXT FOUR	PROGR	AM YEAF	(5 (FY20	19 - FY20)22)						
				FU	ITURE PF	ROJECT	S TOTAL		0		
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	0	.0		
10. MISSION OR MAJOR FUNCTIONS The USAF proposes to improve an building an aircraft maintenanc military exercise and limited U	existi e suppo SAF pre	ng airp rt faci sence.	oort by lity to	expand: increa	ing the ase mil-	parkin -to-mil	g apron cooper	, addin ation b	ig bulk : between (fuel storage tanks, and US-AUS via combined	
Note 1: No personnel will be pe	rmanent	ly assi	gned to	b this i	locatior	n.					
11. OUTSTANDING POLLUTION AND S	SAFETY D	DEFICIEN	ICIES (F	Y 2018-20	022)						
a. Air Pollution											
b. Water Pollution											
c. Occupational Safety and Health											
d. Other Environmental											
			OUT	STANDI	NG DEFIC		S TOTAL		0		

1. COMPONENT		FY 2018 MILI	TA	2. DATE			
AIR FORCE		(computer ger	erate	d)		
3. INSTALLATION	, SIT	E AND LOCATION		4. PI	ROJECT TITL	E	
RAAF BASE DARWI	N			APR -	BULK FUEL	STORAGE TANK	S
AUSTRALTA							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	יס/ חדוופס 7			8. PROJECT	COST (\$000)
			/• RIDOID/II	ROO LCI	NONDER		(4,
27576		124-135	/PA	F1606	00		76,000
		9.	COST ESTIMA	TES			
		ттем			OUANTTTY	UNIT	COST
		1154		0/11	QUANTITI		(\$000)
PRIMARY FACILIT	IES						49,042
BULK STORAGE T	ANKS	(124-135)		CM	15,900	1,905	(30,290)
PETOLEUM OPERA	TIONS	BUILDING (121-111)		SM	255	7,162	(1,826)
POL PUMPHOUSE	(125-9	977)		GM	3,600	1,857	(6,685)
FILTER BUILDIN	G (12	5-977)		GM	4,200	1,194	(5,013)
LIQUID FUEL TR	UCK F	ILL STAND (126-925)		OL	2	1,066,500	(2,133)
LIQUID FUEL ST.	AND, U	JNLOADING (126-926)		OL	6	355,500	(2,133)
SUSTAINABILITY	AND I	ENERGY MEASURES		LS			(962)
SUPPORTING FACII	LITIES	1					19,235
UTILITIES				LS			(7,206)
SITE IMPROVEME	NTS			LS			(4,480)
PAVEMENT				LS			(4,921)
COMMUNICATIONS				LS			(430)
BACKUP GENERAT	OR			LS			(440)
REPLACE LIQUID	OXYGI	EN FACILITY		SM	568	1,572	(893)
ENVIRONMENTAL	REMED	LATION		LS			(300)
ARCHAELOGICAL	MONITO	DRING		LS			(75)
AUSTRALIAN COM	MISSI	DNING		LS			(490)
SUBTOTAL							68,277
CONTINGENCY	(5	5.0%)					3,414
TOTAL CONTRACT (COST						71,691
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				4,660
TOTAL REQUEST							76,350
TOTAL REQUEST (F	ROUNDE	:D)					76,000
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON	-ADD)				(75)
10. Descripti	on of	Proposed Constru	ction: Com	nstru	ct two 7,9	50 cubic me	ter (50,000
Darreis) cut a	.na co	over DUIK IUEL Sto	rage tanks	, aut	omated tar	ik gauging s	ystem, two

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	FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE									
AIR FORCE			(computer ger	nerated)						
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITL	E					
RAAF BASE DARWI	N			APR - BULK FUEL	STORAGE TANKS					
AUSTRALIA		[1							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CC)ST (\$000)				
27576		124-135	/PA	F160600	76	,000				
and UFC 1-200-	02, н	igh Performance a	and Sustainable Building Requirements. This							
project will c	omply	with DoD Antiter	rorism/for	ce protection r	equirements ;	per UFC 4-				
010-01. The pr	oject	will comply with	n applicabl	e criteria cont	ained in Aust	cralian				
Building Code	and M	anual of Fire Pro	stection to	enable interor	erability of					
facilities wit	h loc	al fire services.	•							
Air Conditionia	ng:	2 Tons								
11. Requirement: 21896 CM Adequate: 5996 CM Substandard: 0 CM										
PROJECT: Asia	Paci	fic Resiliency ()	APR) Bulk F	uel Storage Tam	nks (New Miss	ion)				
REQUIREMENT:	The U	nited States Air	Force (USA	F) requires 15,	,900 cubic met	ters of				
fuel storage a	nd su	pporting infrast	ructure at 1	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 laborato	ry, a	filter building	required f	or aviation fue	l to be prope	erly				
filtered befor	e ent	ering or leaving	the fuel s	torage tanks, t	wo pump house	es, and				
fill stands for	r loa	ding and unloadir	ng fuel. Ad	ditionally, sit	ing of fuel f	Eacilities				
displaces a RA	AF ow	ned Liquid Dry B	ceathing Ox	vgen facility v	which must be	relocated				
by this project	t.	•••••	J .							
CURRENT SITUAT	TON:	RAAF Darwin does	s not have	the necessary a	aircraft fuel	storage				
capacity to su	pport	proposed USAF K(C-10 missio	ns.		boorage				
IMPACT IF NOT	PROVI	DED: If this pro	oject is no	t provided, the	e fuel storage	e capacity				
at RAAF Darwin	will	not be adequate	to support	USAF aircraft.	. The USAF wil	ll not				
have the capab	ility	, to meet bilatera	al mission	requirements at	RAAF Darwin	. The				
inability to p	rovid	le fuel to USAF a:	ircraft wou	ld drastically	decrease pow	er				
projection and	glob	al reach capabil:	ities in su	pport of US-Aug	stralia bilat	eral				
exercises and	theat	er security opera	ations in t	 he Asia-Pacifio	region.					
ADDITIONAL.	hig r	roject meets the	criteria/s	cope specified	in Air Force	Manual				
32-1084. "Faci	litv	Requirements." A	dequate fue	l storage and d	lispensing					
infrastructure	+0 s	support USAF miss	ions does n	ot exist on RAM	AF Darwin and	as such				
new constructi	on is	the only viable	alternativ	e which meets r	nission requir	rements				
An Economic An	on 15 alvei	s Waiver has been	n obtained	Supporting fac	ility costs	are				
approvimately	30 DO	s waivel has been	facility c	ost due to sub	stantial util	110 i+v				
approximatery		are to gupport fu	vol storage	and dignorging	, oporationa	Page				
Civil Engineer	. 000	448_{2450} Evol	Storage. 15)00 barrela.	Petroleum				
Operations Bui	ldina	$125 - 2439 \cdot Fueld i$	SF: Limid	Oxvgen Facilit	v: 568 gm =	6114 SF				
	au	- 255 BM = 2,750	SF, Liquid		.y. 500 BM - 0	JII Dr.				
FOREIGN CURREN	CY:	rer Budget Rate 1	JSEQ: AUSI-	DOLLAR .74						
JOINT USE CERT	IFICA	TION: This facil:	ity can be	used by other o	components on	an as				
available basi	s. Ho	wever, the scope	of the pro	ject is based o	on Air Force					
Requirement.										

1. COMPONENT		FY 2018 MILITARY	Y CONS	STRUC	TION PRO	OJECT	DATA	2. DATE
AIR FORCE		(com	puter	gene	rated)			
3. INSTALLATI	ON AND L	OCATION			4. PRO	JECT :	TITLE	
RAAF BASE DAR	WIN				APR -	BULK 1	FUEL STORAGE	TANKS
AUSTRALIA							1	
5. PROGRAM EL	EMENT	6. CATEGORY CO	DE 7.	. PRO	JECT NUI	MBER	8. PROJECT CO	DST (\$000)
27576		124-135		/P2	AF160600	D	76	,000
12. SUPPLEMEN	TAL DATA		·				•	
a. Estimate	d Desigr	Data:						
(1) Statu	(1) Status:							
(a) Da	te Desig	n Started					01	-AUG-16
(b) Pa	rametric	Cost Estimates	used	to de	evelop d	costs		YES
* (c) Pe	ercent Co	mplete as of 01	JAN 2	2017				95%
* (d) Da	te 35% I	Designed					01	-JUL-17
(e) Da	te Desig	n Complete					01	-MAR-18
(f) En	ergy Stu	dy/Life-Cycle an	alysi	s was	s/will k	be per	formed	YES
(2) Basis	:							
(a) St	andard o	or Definitive Des	sign -	-				NO
(b) Wh	ere Desi	lgn Was Most Rece	ently	Used	-			
(2) Total		$(\mathbf{a}) = (\mathbf{a}) + (\mathbf{b}) \mathbf{a}$	(a)	. (0)				(2000)
(3) IOLAI		(a) + (b) OI		+ (e)				(\$000)
		Derive Gente	peciri	Catio	ons			4,560
(b) Al	.1 Other	Design Costs						2,280
(c) To	otal							6,840
(d) Co	ntract							5,700
(e) In	1-house							1,140
(4) Const	ruction	Contract Award						18 AUG
(5) Const	ruction	Start						18 SEP
(6) Const	ruction	Completion						20 DEC
* Indicat	es compl	etion of Project	: Defi	nitic	on with	Param	netric Cost Es	timate
which i	.s compar	able to traditio	onal 3	85% de	esign to	o ensu	re valid scop	e,
cost an	ld execut	ability.						
b. Equipmen	nt associ	ated with this p	projec	t pro	ovided f	Erom c	other appropri	ations:
EQUIPMEN:	I NOMENC	LATURE	PRO APPRO	CURIN	G TION	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED	COST (\$000)
FURNITUR	E, FIXTU	RES & EOMT	-	3400		_	19	50
COMMINITO	 מידר איב שי	~ OIIT PMENT		3400			19	25
COMMUNICA	AITONS E	QUIPMENI		3400			19	25

1. COMPONENT			FY 20	18 MIL	ITARY (CONSTR	UCTIO	N PRO	GRAM	2. DATE	(YYYMMDD)
3. INSTALLATION	AIR FORCE				4. COM	MAND				5. AREA	
UNSPECIFIED LO	CATION				PACIFI	C AIR FO	ORCES			COST	INDEX
COMMONWEALTH O	F NORTHERN MARIAN	A ISLAN	DS PERMAN	FNT	(2)	STUDEN	ITS	(3)	SUPPOR	TED	2.64
C. TEROORINEE		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL
a. AS OF	30-Sep-16	N/A		See 1	Note 1						0
b. END FY	2022	N/A									0
7. INVENTORY D	ATA (\$000)	0									
b. INVENTOR	Y TOTAL AS OF	30-Sep-	-16								0
c. AUTHORIZA	ATION NOT YET IN INV	ENTOR	(9,000
	ATION REQUESTED IN	N THIS PE	ROGRAN	(FY 201	(<u>8)</u> 2)						12,900
f. REMAINING	DEFICIENCY			010 202	-/						0
g. GRAND TO	TAL	OGPAM	/EV 2019	1							375,600
6. FROJECTS RE	QUESTED IN THIS PR	a. CA	TEGOR	(b. C	OST	c. DESIGN STATUS
(1) CODE	(2) PR	OJECT T	ITLE			(3) SCOP	E	(\$0	000)	(1) START (2) COMPLETE
922-274 APR -	- Land Acquisition	1					142 HA		12,	900	N/A
									10		
9. FUTURE PROJ	IECTS IN NEXT FOUR	PROGR		S (FY20	19-FY20	22)		TOTAL	12,	900	
218-712 APR -	- Maintenance Supp	port Fac	cility			/	652	SM	з,	700	
112-211 APR -	- Cargo Pad with ! - Airfield Develor	Caxiway	Extens	ion m/mavi	1.7 2 17		84,570	SM	39, 202	000	
124-135 APR -	- Fuel Tanks with	Pipelir	ne/Hydr	ant Sys	tem	2	35,000	CM	109	,000	
					FU	ITURE PF	ROJECTS	S TOTAL	353	,700	
	REQUIREMENT (\$M)							ΤΟΤΑΤ.	0	0	
10. MISSION OR	MAJOR FUNCTIONS							IUIAL			
The USAF propo	ses to improve in	frastru	cture a	nd mil:	itary t	raining	facili	ties in	suppor	t of Ai	r Operations for
divert, traini	ng exercises, and	natura	l disas	ter rea	sponse	in the (Commonw	ealth o	i North	ern Mar	lana Islands.
Note 1: No per	sonnel will be pe	rmanent	lv assi	aned to	o this	locatio	٦.				
	P-		-1								
11. OUTSTANDIN	IG POLLUTION AND S	SAFETY D	DEFICIEN	ICIES (F	Y 2018-2	022)					
a. Air Pollutio	n										
b. Water Pollu	ution										
c. Occupation	nal Safety and Health										
d. Other Envir	ronmental										
				011				ς τοται		0	
										-	

1. COMPONENT		FY 2018 MIL	ITARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE
AIR FORCE			(computer ger	erate	d)		
3. INSTALLATION TINIAN	, SITI	E AND LOCATION		4. PF APR -	ROJECT TITLE · LAND ACQUI	E	
NORTHERN MARIAN	A ISL	ANDS					
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT	COST (\$000)
27576		911-146	/PA	F16030	0B	12	2,900
		9.	COST ESTIM	TES			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITI	ES						19,616
LAND ACQUISITIC	N			НА	142	138,140	(19,616)
SUPPORTING FACIL	ITIES	l					0
SUBTOTAL							19,616
CONTINGENCY	(5	5.0%)					981
TOTAL CONTRACT C	OST						20,597
SUPERVISION, INS	PECTI	ON AND OVERHEAD	(6.2%)				1,277
TOTAL REQUEST							21,874
TOTAL REQUEST (R	OUNDE	D)					21,900
land (in fee or training facil: exercises, and from the Common Port Authority Instruction 410	r lon ities natu nweal . Lan 65.71	ng-term lease) for and infrastructural disaster resp th of Northern Ma ad acquisition is , Real Property 2	r the const: ure in suppo ponse. Land ariana Islan to be accon Acquisition	ruction ort o d par nds (mplis	on of Air f air oper cels are r CNMI) thro hed in acc	Force milit rations for equired to bugh the Com cordance wit	ary divert, be acquired monwealth h DoD
11. Requirement PROJECT: Asia REQUIREMENT: 7 for the constru- in support of 7 in the CNMI. The minimum of 25 y comports to the and the United necessary to me this land by for CURRENT SITUAT decided to loca non-Federal lan operational and Mission. Exist for this mission IMPACT IF NOT 10 of the project constructed. If facilities are capability.	t: 14 Paci The A uctic Air C he Ai years e pol Stat eet t ate t d sup ting on. PROVI s tha nitia cons	22 HA Adequates fic Resiliency () air Force will account operations for diversion operations for diversion of Air Force mail operations for diversion of Air Force mail of the Air Force mail the Mission require the mission require the CNMI government the Air Force, mail the Divert and Excount of fee or by long-to oport infrastructor federally-leased CDED: Without second the Support the Diversion and Air Operations	: 0 HA St APR) - Land quire land o ilitary tra- vert, exerc: to acquire a is prepared e 1976 Cover ire only the rement. The ment is will in coordina- ercise Miss term lease a land in CM curing righ vert and Ex capability ng the Air	Acque aithe ining ises, an in to 1 hant a min Air ling tion a is re for to MI do ts fo ercis cann Force	ndard: 0 H isition (N r in fee of facilitie and natur terest in ease the p between th imum real Force is w to sell it with the C t Tinian, quired to execute t es not inc r the need e Mission of be achi of this m	A New Mission) or by long-t s and infra al disaster this land f property at e governmen property in rilling to p c. CNMI governm CNMI. Acqu construct t the Divert a clude parcel ded land par within CNMI eved until nuch-needed	erm lease structure response or a a cost that t of CNMI terest urchase ent, has isition of he nd Exercise s required cels, none can be these operational

	1					
1. COMPONENT		FY 2018 MILI	TARY CONSTRU	OCTION PROJECT DA	TA	2. DATE
AIR FORCE		((computer ger	nerated)		
3. INSTALLATION	, SITI	E AND LOCATION		4. PROJECT TITL	E	
TINIAN				APR - LAND ACQU	ISITION	
NORTHERN MARIAN	A ISL	ANDS				
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CO	ST (\$000)
27576		911-146	/PA	F160300B	12,	900
ADDITIONAL: Th	is pr	oject was submitt	ted to Cong	ress (Project 1	Number PAF160	300) as
part of the FY	2017	President's Budg	get Request	, before a fina	al location wa	as
announced. Th	e sco	ope contained all	of the lan	d needed for th	nis requiremen	nt (142
hectares); how	ever,	the cost per ac	re of the l	and located at	Tinian is hig	gher than
our original e	stima	ite at an "unspeci	ified" loca	tion. Therefor	re, the FY 201	18
President's bu	dget	includes:	h - TT - 001 F	Netdowal Defer		
(NDA) to rofl		lage that amends the loss	the FY 2017	National Defen	ase Authoriza	tion Act
(NDAA) to fell	r an	EV 2018 appropria	ation $(\$12)$	Project cost : 9M) to fully fu	and this proj	act
- A lequest IO		FI 2010 approprie	Author	ized of		
FY (\$M)		Authorization	Approp	riation	Appropriat:	Lon
2017 Enacted		\$9.0	\$9	.0	\$9.0	
2018 Request		*	\$12	.9	\$12.9	
Total		\$21.9	\$21	.9	\$21.9	
An Economic An guidance. The value determin 3810. 142 hect HISTORY OF BAS LONG TERM REAL construction. JOINT USE CERT available" bas requirements.	alysi Navy atior ares E BOU E ESTA TIFICA	as (EA) was perfor y prepared a Cost a prior to negotia = 350 acres. INDARY: Not appl: ATE: Long-term La ATION: This facil: however, the scope	rmed by the Estimate t ations with icable ease is req ity can be e of the pr	Navy IAW with o more fully in CNMI. Base C: uired to suppo: used by other o oject is based	Department of nform the fait ivil Engineer rt planned ner components on on Air Force	f Defense r market : 808-449- w an "as

1. COMPONENT		FY 2018 MILITARY C	ONSTRUC	TION PROJECT	DATA	2. DATE
AIR FORCE		(comput)	er gene			
3. INSTALLATI	ON AND L	OCATION		4. PROJECT	TITLE	
TINIAN				APR - LAND	ACQUISITION	
NORTHERN MARI	ANA ISLA	ANDS	1		1	
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)
27576		911-146	/ PA	F160300B	12,9	000
12. SUPPLEMEN	TAL DAT	A:				
a. Estimate	d Design	n Data:				
(1) Statu	IS:	m Showhod			01	777 10
(a) Da	rametri	jn Started 2 Cost Estimatos use	d to de	welop dosts	10	-18-18
(D) Fa	rcent Co	omplete as of 01 JAN	1 2017	everop coscs		
(d) Da	te 35% I	Designed	201/		01	-FEB-18
(e) Da	te Desig	an Complete			01	-FEB-18
(f) En	nergy Stu	udy/Life-Cycle analy	vsis was	s/will be per	formed	NO
				_		
(2) Basis	:					
(a) St	andard o	or Definitive Design	1 -			NO
(b) Wh	ere Desi	ign Was Most Recentl	y Used	-		
(3) Total	Cost (c	(a) = (a) + (b) or (c)	l) + (e)	:		(\$000)
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		0
(b) Al	l Other	Design Costs				0
(c) Tc	otal					0
(d) Co	ntract					0
(e) In	-house					0
(4) Const	ruction	Contract Award				18 FEB
(5) Const	ruction	Start				18 FEB
(6) Const	ruction	Completion				18 FEB
b. Equipmen N/A	it associ	iated with this pro	ject pro	ovided from c	other appropri	ations:

I. COMPONENT AIR FORCE		FY 20	18 MILI	TARY C	ONSTR	UCTIO	N PROC	GRAM	2. DATE	(YYYMMDD) 20160930	
3. INSTALLATION AND LOCATION AVIANO AIR BASE				4. COM	MAND STATES	AIR FO	RCES IN		5. AREA COST		ON
6. PERSONNEL	(1) F	PERMAN	ENT	(2)	STUDEN	ITS	(3)	SUPPOR	TED	1.33	
•	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	101	AL
a. AS OF 30-Sep-16	304	3332	552	0	0	0	8	93	24		4,313
D. END FY 2022	304	3320	551	0	0	0	8	93	24		4,300
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE	,368										
b. INVENTORY TOTAL AS OF 3	0-Sep-	-16									2,539,771
d. AUTHORIZATION REQUESTED IN T	HIS PF	ROGRAM	(FY 201	8)							27,325
e. PLANNED IN NEXT FOUR PROGRA	M YEA	RS (FY 2	019-2022	2)							5,000
f. REMAINING DEFICIENCY											13,500
g. GRAND IOTAL	2PAM	/EV 2018	1								2,594,996
	a. CA	TEGOR	(b. C	OST	c. DESIGN	STATUS
(1) CODE (2) PRO.	JECT T	ITLE			(3) SCOP	E	(\$0	000)	(1) START	(2) COMPLETE
141-185 Guardian Angel Operation	ns Fac	cility				7,285	SM	27,	325	12/16	09/17
							TOTAL	27,	325		
				FU	TURE PF	ROJECT	S TOTAL	5,	000		
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	9	.1		
10. MISSION OR MAJOR FUNCTIONS											
Conducts air and space combat and squadrons able to conduct regiona conventional and non-conventional and communications. Provides com	i comb il and muni mand,	at supp expedi tions. contro	ort ope tionary Mainta 1 and s	y operations y operat ains an support	s in Eur cions ur air cor functio	rope's nder NA ntrol s ons.	Souther TO, SAC quadron	n Regic EUR or capabl	n. Mai nationa e of ai	ntains two F l tasking wi r surveillan	-16 fighter th ce, control
TI. OUTSTANDING POLLUTION AND SA	FEITL	FICIEN		1 2010-20	122)						
a. Air Pollution											
b. water Foliution											
c. Occupational Safety and Health											
a. Other Environmental											
			OUT	STANDI	IG DEFIC		<u>S TOTAL</u>		0		

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE	
AIR FORCE		(c	omputer gen	erate	d)			
3. INSTALLATION	, SITE	AND LOCATION		4. PF	OJECT TITLE	2	·	
AVIANO AIR BASE				GUARD	IAN ANGEL C	PERATIONS FA	CILITY	
AVIANO AIR BASE	SITE	# 1						
5 PROGRAM FLEM	FNT	6 CATECORY CODE		PROTE	TT NIIMBED	8 PROTECT	COST (\$000)	
		0. CALEGORI CODE	/: RIBULD/	INCOL	ET NOMBER		CODI (\$000)	
27224		141-185	1400,	0/ASHE143008 27,325				
		9. C	OST ESTIMA	TES	1			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILIT	IES						21,042	
SQUADRON OPERA	TIONS	FACILITY (141-185)		SM	6,785	2,437	(16,535)	
AQUATIC TRAINI	NG CEN	TER (141-185)		SM	500	8,188	(4,094)	
SUSTAINABILITY AND ENERGY MEASURES							(413)	
SUPPORTING FACIL	LITIES						2,550	
UTILITIES				LS			(650)	
SITE IMPROVEME	NTS			LS			(650)	
PAVEMENTS				LS			(960)	
COMMUNICATIONS	SUPPO	RT		LS			(170)	
ANTITERRORISM/	FORCE	PROTECTION		LS			(120)	
SUBTOTAL						-	23,592	
CONTINGENCY	(5.0%))					1,180	
TOTAL CONTRACT (COST						24,771	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				1,610	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				944	
TOTAL REQUEST							27,325	
TOTAL REQUEST (1	ROUNDE	D)					27,325	
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				(1,310)	
10. Descripti to include ope	on of	Proposed Construction	ction: Co , warehous	nstru e, an	ct a new (d aquatic	Juardian Ang training sp	el complex ace	
utilizing conv	rentio	nal design and cor	nstruction	meth	ods to acc	commodate th	e mission	
of the facilit	y. Co	nstruction will co	onsist of	reinf	orced cond	crete founda	tions,	
reinforced con	crete	frame structure v	with clay	block	masonry i	infill, ceme	nt plaster	
stucco, reinic	rced	hollow concrete ro	oot with c	lay t	lles, all	supporting	utilities,	
ensure a compl	ete a	nd usable facility	v. Facilit	ies w	vill be des	signed as pe	rmanent	
construction i	n acc	ordance with the I	DoD Unifie	d Fac	ilities Cr	citeria (UFC	1-200-01,	
General Buildi	.ng Re	quirements and UFC	2 1-200-02	, Hig	h Performa	ance and Sus	tainable	
Building Requi	remen	ts. This project w	will compl	y wit	h DoD anti	iterrorism/f	orce	
protection req	uirem	ents per UFC 4-010	0-01.					
Air Conditioni	ng:	200 Tons	0	<u> </u>				
11. Requiremen	1. Requirement: 7285 SM Adequate: 0 SM Substandard: 0 SM							
PROJECT: Guar	ROJECT: Guardian Angel (GA) Operations Facility (New Mission)							
REQUIREMENT:	Const	ruct adequately si	Ized, purp	ose b	ouse and a	acilities to	provide	
for the Person	nel P	ecovery mission be	ing assim	ned +	ouse and e o Aviano A	B, Italv St	earch-and-	
rescue operati	ons a	re being relocated	l from sub	-stan	dard facil	ities at RA	F Lakenheath,	
United Kingdom	to A	viano AB, Italy pu	irsuant to	an O	verseas Fo	orce Structu	re Change and	

DD FORM 1391, DEC 99 Previous editions are obsolete.

Page No.

1. COMPONENT	FY 2018 MILI		TARY CONSTRU	CTION PROJECT DAT	TA	2. DATE			
AIR FORCE	((computer generated)						
3. INSTALLATION,	, SITE AND LOCATION	SITE AND		4. PROJECT TITLE	l				
AVIANO AIR BASE			GUARDIAN ANGEL OPERATIONS FACILITY						
AVIANO AIR BASE	SITE # 1	SITE # 1							
ITALY									
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	T 6. 0	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	OST (\$000)			
27224	141-185		1400,	/ASHE143008	27,3	325			

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.

<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.

IMPACT IF NOT PROVIDED: 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.

<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.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .9329

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 E	Y 2018 MILITARY Concerned (Compute	ONSTRUCTION F	ROJECT	DATA	2. DATE
		4 550			
S. INSTALLATION AND LO	CATION	4. PROL	DECT TI		
AVIANO AIR BASE	1	GUARDIA	AN ANGEI	OPERATIONS I	ACILITY
ITALY	1				
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT N	IUMBER	8. PROJECT CC	ST (\$000)
27224	141-185	1400/ASHE14	43008	27,32	25
12. SUPPLEMENTAL DATA:					
a. Estimated Design	Data:				
(1) Project to be a	accomplished by de	sign-build pr	rocedure	25	
(2) Basis:					
(a) Standard or (b) Where Desig	Definitive Design n Was Most Recent	n - Ly Used -			NO
(3) All Other Desig	gn Costs				1,093
(4) Construction Co	ontract Award				18 JUL
(5) Construction St	tart				18 AUG
(6) Construction Co	ompletion				19 AUG
(7) Energy Study/L	ife-Cvcle analvsis	was/will be	perfor	med	YES
EQUIPMENT NOMENCLA	PROC	URING APPRC	APPRO OR RE	PRIATED QUESTED	COST (\$000)
SQD OPS FURNISHING	35	3400		19	110
WAREHOUSE EQUIPMEN	IT/SHELVING	3400		19	450
ATC FURNISHINGS/EQ	UIPMENT	3400		19	350
ROCK CLIMBING TOWE	2R	3080		19	400

INSTITUCTION 4. COMMAND 5. AREA CONSTRUCTION DATA ALLOR TO ARAZO IT COMMAND S. AREA CONSTRUCTION COST INDEX I.19 A SOF 30-Sep-16 45. 64. 30. 40. 00. 00. 00. 134. 6434. 330. 7.0 A SOF 30-Sep-16 45. 64. 20. 00. 00. 00. 134. 6434. 330. 7.0 B. END FY 3022 45. 42. 00. 00. 00. 134. 6434. 330. 7.0 B. END FY 3022 1.19. 10. 134. 6434. 330. 7.0 C. AUTIORIZATION READ SAFE 7.0 A. TOTAL ACREAGE 3.000000000000000000000000000000000000	1. COMPONENT		FY 20	18 MILI	TARY	FY 2018 MILITARY CONSTRUCTION PROGRAM							
Data Data CONSTRUCT CONSTRUCT 1.13 6. PERSONNEL Immediation Immediation <t< td=""><td>3. INSTALLATION AND LOCATION</td><td></td><td></td><td></td><td>4. COM</td><td>MAND</td><td></td><td></td><td></td><td>5. AREA</td><td colspan="3">AREA CONSTRUCTION</td></t<>	3. INSTALLATION AND LOCATION				4. COM	MAND				5. AREA	AREA CONSTRUCTION		
FERGUNAEL (1) PERMANENT (2) STUDENTS (3) SUPPORTED (1) a. AS OF 30-app-16 43 42 0 0 0 1334 6434 250 7,0 b. END FY 302 43 42 0 0 0 1334 6434 250 7,0 b. END FY 302 43 42 0 0 0 1334 6434 350 7,0 b. END FY 302 43 42 0 0 0 0 1334 6434 350 7,0 b. END FY 302 643 42 0 0 0 0 1334 6434 350 7,0 c. AUTIORIZATION NOT YET IN INSPROGRAM (#2018) 14350 14500 142532 143 1425 142502 14252 142502 14252 142502 14252 142502 142502 142502 142502 142502 142502 142502 142502 142502 142502 142502	AL UDEID				AIR COM	MBAT CON	MAND			COST	I INDEX		
AS OF Solution Interest of the second secon	6. PERSONNEL	(1) I	PERMAN	ENT	(2)	STUDEN	TS	(3)	SUPPOR	TED			
a. AS OF 30: 589-14 45 42 0 0 0 134 6434 350 7,0 7, MVENTORY DATA (3000) . . TOTAL ACRAGE 9,673 .		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL		
DEND FY 2022 15 12 0 0 0 134 6424 350 7,0 a. TOTAL ACREAGE 9,073	a. AS OF 30-Sep-16	45	42	0	0	0	0	134	6434	350	7,005		
I. MUNUTURATION TOTAL 4.800 4.31 b. TOTALMORRAGE 4.32 c. TOTALMORRAGE 4.32 b. OUTHORRAGE 4.35 c. AUTHORRATION NOT YET IN INVENTORY 1.584.2 c. AUTHORRATION NOT YET IN INVENTORY 1.423.2 c. AUTHORRATION FOUR PROGRAM (FY 2018) 1.423.2 c. AUTHORRATION PEOLENCY 1.423.2 r. REMAINS DEFICIENCY 1.423.2 r. REMAINS DEFICIENCY 1.423.2 r. REAL 6.0020 (I) CODE (2) PROJECT STOTAL (2) CODE (3) SCOPE (4) TOTAL 5.0031 (1) CODE (2) PROJECT STOTAL (1) CODE (2) PROJECT STOTAL (3) SCOPE (30.00) (4) TOTAL (5.001) (1) CODE (2) PROJECT STOTAL (1) CODE (2) PROJECT STOTAL (1) CODE (2) PROJECT STOTAL (1) CODE (1) SCOPE (1) CODE (2) PROJECT STOTAL (2) CONCOUNT TOTAL (3) SCOPE (3) SCOPE (4) SOUTO (4) CODE (5) SCOPE (5) CODE (2) SCOPE <td>b. END FY 2022</td> <td>45</td> <td>42</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>134</td> <td>6434</td> <td>350</td> <td>7,005</td>	b. END FY 2022	45	42	0	0	0	0	134	6434	350	7,005		
b. INVENTORY TOTAL AS OF 1.596-21 c. AUTHORRATION NEOUESTED IN THIS PROGRAM (PY 2018) 1.5.0 d. AUTHORRATION NEAU TOTU INVENTORY 1.5.0 d. AUTHORRATION NEAU TOTU INVENTORY 1.5.0 d. REAMENING DEFICIENCY 1.7.0 g. GRAND TOTAL 1.6.001 s. PLOANEED IN INTE PROGRAM (PY 2019) 1.6.202,1 g. GRAND TOTAL 1.6.202,1 s. PLOANEED TOTAL 0 110:00E (2) PROJECT TITE (14:753) 0naolidated Squadron Operations Facility 4,000 SM (14:753) 0naolidated Squadron Operations Facility 4,000 SM 11:5,000 15,000 04/16 09/17 11:5,000 15,000 04/16 09/17 11:00E 0 15,000 04/16 09/17 11:00E 1:00E 1:00E 0 0 11:00E 0 1:0.00E 0 0 11:00E 1:0.00E 1:0.00E 0 0 11:00E 1:0.00E 1:0.00E 0 0 11:00E 1:0.0E 1:0.0E 0 0 11:	7. INVENTORY DATA (\$000) a. TOTAL ACREAGE	9,673											
C. AUTHORIZATION NOT YET IN INVENTORY AUTHORIZATION NOT YET IN INVENTORY AUTHORIZATION NOT YET IN INFORMATION PROGRAM (FY 2018) If 20 AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2019) If 20 AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2019) If 20 AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2019) If 20 AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2019) If 20 AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2019) If 20 AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2019) If 20 AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2019) If 20 AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2019) AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2019) AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2019) AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2019) AUTHORIZATION REQUESTED IN THIS PROGRAM YEARS (FY 2019 - FY 2022) FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2019 - FY 2022) FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2019 - FY 2022) FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2019 - FY 2022) FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2019 - FY 2022) FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2019 - FY 2022) FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2019 - FY 2022) FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2019 - FY 2022) FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2019 - FY 2022) If A UTHORIZATION AND AUTHORIZATION AUTHORIZATION AUTHORIZATION AND AUTHORIZATION	b. INVENTORY TOTAL AS OF	30-Sep	-16								1,594,298		
Le PLANEED NIEER NOUT FOUR PROGRAM TEARS (P/2019/2022) 15,00 16,00 17, FEMANING DEFICIENCY 16,02 17, FEMANING DEFICIENCY 16,02 17, FEMANING DEFICIENCY 16,02 17, FEMANING DEFICIENCY 16,02 17,020	c. AUTHORIZATION NOT YET IN IN	ENTOR		L/EV 201	0)						15 000		
f. REMAINING DEFICIENCY 11,0,0 g. GRAND FOTAL 1,683,2 s. PROJECTS REQUESTED IN THIS PROGRAM (FY2018) s. COST c. DESIGN STATUS (1) CODE (2) PROJECT TITLE (3) SCOPE (5000) (1) START (2) COMPLETING 111-733 Consolidated Squadron Operations Facility 4,000 SX 15,000 04/16 09/17 111-733 Consolidated Squadron Operations Facility 4,000 SX 15,000 04/16 09/17 111-733 Consolidated Squadron Operations Facility 4,000 SX 15,000 04/16 09/17 111-733 Consolidated Squadron Operations Facility 4,000 SX 15,000 04/16 09/17 111-733 Consolidated Squadron Operations Facility 4,000 SX 15,000 04/16 09/17 112-73 Consolidated Squadron Operations Facility 4,000 SX 15,000 00 0 112-73 Consolidated Squadron Operations Facility 14,000 SX 15,000 0 0 12-75 Consolidated Squadron Operations Total 15,000 0 0 13-75 Constraits avality thity foreotidate signal theore theore theore theor	e. PLANNED IN NEXT FOUR PROGI	RAM YEA	RS (FY 2	2019-2022	8) 2)						0		
G. GRAND TOTAL I. 1.453.2 I. COST I. I. I. I. I. I. I. I. I. I. I. I.	f. REMAINING DEFICIENCY										14,000		
Discretion interest of the second	g. GRAND TOTAL 8 PROJECTS REQUESTED IN THIS PR	OGRAM	(EV 2018	:)							1,623,298		
CIDCODE (2) PROJECT TITLE (3) SCOPE (3000) (1) START (2) COMPLET 141-753 Consolidated Squadron Operations Facility 4,000 SM 15,000 04/16 09/17 111-753 Consolidated Squadron Operations Facility 4,000 SM 15,000 04/16 09/17 111-753 Consolidated Squadron Operations Facility 4,000 SM 15,000 04/16 09/17 111-101 Intervention Intervention Intervention Intervention 0 111-101 Intervention Intervention Intervention 0 Intervention 111-101 Intervention Intervention Intervention 0 Intervention 111-101 Intervention Intervention Intervention 0 Intervention 0 Intervention Intervention Intervention Intervention 0 Intervention 0 Intervention Intervention Intervention Intervention 0 Intervention 0 Intervention Intervention Intervention Intervention 0 0 Intervention Intervention	6. FROSECTS REQUESTED IN THIS FR	a. CA	TEGOR	(b. C	OST	c. DESIGN STATUS		
141-753 Consolidated Squadron Operations Pacifity 4,000 SM 15,000 04/16 09/17 Image: Squadron Operations Pacifity 4,000 SM 15,000 04/16 09/17 Image: Squadron Operations Pacifity Image: Squadron Operations Pacifity 15,000 04/16 09/17 Image: Squadron Operations Pacifity Image: Squadron Operations Pacifity Image: Squadron Operations 0 Struct PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022) Image: Squadron Operations 0 RAM UNFUNCED REQUIREMENT (SM) Image: Squadron Operations 0.0 To MISSION OR MAJOR FUNCTIONS 0.0 0.0 The 379th Air Expeditionary Wing is the largest, most diverse expeditionary wing the Air Force, providing combat airpover and support for Operations Inherent Resolve and Freedom's Sentical. 0.0 The 379th Air Expeditionary wing 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. 11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022) a. Air Pollution b. Water Pollution . Occupational Safety and Health d. Other Environmental . .	(1) CODE (2) PR	OJECT T	ITLE			(3) SCOP	E	(\$0	000)	(1) START (2) COMPLETE		
FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022) 9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022) 9. FUTURE PROJECTS TOTAL 0 Control (SM) TOTAL 0 REMUNEUMENT (SM) TOTAL 0 REMUNEUMENT (SM) TOTAL 0 TOTAL 0.0 TOTAL 0.0 TOTAL 0.0	141-753 Consolidated Squadron	Operat	lons Fa	cility			4,000	SM	15,	000	04/16 09/17		
FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022) TOTAL 15,000 S. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022) FUTURE PROJECTS TOTAL 0 O <td colspan<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>												
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9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY2019 - FY2022) FUTURE PROJECTS TOTAL 0 RAM UNFUNDED REQUIREMENT (5M) TOTAL 0.0 TOTAL 0.0 To MISSION OR MAJOR FUNCTIONS 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. 11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022) a. Air Pollution b. Water Pollution c. Occupational Safety and Health d. Other Environmental								TOTAL	15,	000			
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2018-2022) a. Air Pollution b. Water Pollution c. Occupational Safety and Health d. Other Environmental	R&M UNFUNDED REQUIREMENT (\$M) 10. MISSION OR MAJOR FUNCTIONS The 379th Air Expeditionary Win airpower and support for Operat more than 100 aircraft, making essential combat power, aeromed theaters of operations	g is th ions In the bas ical ev	e large herent e a lar acuatic	st, mos Resolve ge hub n, airl	FU st dives and Fr for hur lift, a:	TURE PF	edition s Senti lan air eling,	S TOTAL TOTAL ary win nel. T lift ac and int	0 g the A he wing tivity elligen	0 .0 and as while p cce gath	e, providing combat sociate units operate roviding mission- ering for multiple		
a. Air Pollution b. Water Pollution c. Occupational Safety and Health d. Other Environmental	11. OUTSTANDING POLLUTION AND S	SAFETY D	DEFICIEN		Y 2018-20)22)							
a. Air Pollution b. Water Pollution c. Occupational Safety and Health d. Other Environmental													
b. Water Pollution c. Occupational Safety and Health d. Other Environmental	a. Air Pollution												
b. Water Pollution c. Occupational Safety and Health d. Other Environmental													
c. Occupational Safety and Health d. Other Environmental	b. Water Pollution												
d. Other Environmental	c. Occupational Safety and Health												
	d. Other Environmental												
OUTSTANDING DEFICIENCIES TOTAL 0				ουτ	STANDI	NG DEFIC		S TOTAL		0			

1. COMPONENT		FY 2018 MIL	TARY CONSTRU	CTION	PROJECT DA	2. DATE		
AIR FORCE			(computer ger	merated)				
3. INSTALLATION	, SIT	E AND LOCATION		4. PI	ROJECT TITL	E	·	
AL UDEID AB				CONSC	LIDATED SQU	JADRON OPERATI	ONS FACILITY	
QATAR								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT (COST (\$000)	
27576		141-753	AL	UA1130	23	1	5,000	
		9.	COST ESTIMA	TES				
				/		UNIT	COST	
		ITEM		0/M	QUANTITY		(\$000)	
PRIMARY FACILIT	IES						11,200	
CONSOLIDATED S	QUADRO	ON OPERATIONS FACIL	ITY	SM	4,000	2,745	(10,980)	
SUSTAINABILITY	AND H	ENERGY MEASURES		LS			(220)	
SUPPORTING FACII	LITIES	1					2,264	
UTILITIES				LS			(1,670)	
SITE IMPROVEME	NTS			LS			(447)	
COMMUNICATIONS				LS			(147)	
SUBTOTAL							13,464	
CONTINGENCY	(5	5.0%)					673	
TOTAL CONTRACT (COST						14,137	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				919	
TOTAL REQUEST						-	15,056	
TOTAL REQUEST (H	ROUNDE	D)					15,000	

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.

Air Conditioning: 150 Tons

11. Requirement: 4000 SM Adequate: 0 SM Substandard: 1404 SM

PROJECT: Consolidated Squadron Operations Facility (Current Mission).

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.

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

1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA							
AIR FORCE			(computer gen	nerated)					
3. INSTALLATION	, SITE	ITE AND LOCATION 4. PROJECT TITLE							
AL UDEID AB		CONSOLIDATED SQUADRON OPERATIONS FACILITY							
QATAR									
5. PROGRAM ELEM	ENT	NT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT C							
27576		141-753 /ALUA113023 15							

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. Mostcritically, 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.

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.

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

JOINT USE CERTIFICATION: This facility is programmed for joint use by all services; however, it is fully funded by the Air Force.

1. COMPONENT		FY 2018 MILITARY CO	ONSTRUC	TION PROJECT	DATA	2. DATE				
AIR FORCE	AIR FORCE (computer generated)									
3. INSTALLATI	ON AND I	LOCATION		4. PROJECT	TITLE					
AL UDEID AB				CONSOLIDATE FACILITY	D SQUADRON OPE	RATIONS				
QATAR		1			1					
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)				
27576		141-753	/AI	UA113023	15,	000				
12. SUPPLEMEN	TAL DAT	A:								
a. Estimate	ed Design	n Data:								
(1) Statu	IS:									
(a) Da	te Desig	gn Started			17	-MAR-16				
(b) Pa	arametri	c Cost Estimates use	ed to de	evelop costs		YES				
* (c) Pe	ercent Co	omplete as of 01 JAN	1 2017							
* (d) Da	ate 35% 1	Designed			17	-MAR-17				
(e) Da	te Desig	gn Complete			01	-SEP-17				
(f) Er	nergy Stu	udy/Life-Cycle analy	rsis was	s/will be per	formed	YES				
(2) Pagia										
(2) Basis										
(a) St	andard (or Definitive Design	- I			NO				
(D) WI	ere Desi	ign was most Recenti	y Usea	-						
(3) Total	. Cost (d	c) = (a) + (b) or (d)) + (e)):		(\$000)				
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		900				
(b) Al	l Other	- Design Costs				450				
(c) To	otal	-				1,350				
(d) Co	ntract					1,125				
(e) In	n-house					225				
(4) Const	ruction	Contract Award				18 FEB				
(5) Const	ruction	Start				18 MAR				
(6) Const	ruction	Completion				19 DEC				
* Indicat	es comp	letion of Project De	finitio	on with Param	etric Cost Es	timate				
which i	.s compan	rable to traditional	. 35% de	esign to ensu	re valid scop	e,				
cost an	d execut	tability.		5	-	- •				
b. Equipmen	nt assoc	iated with this proj	ect pro	ovided from c	ther appropri	ations:				
N/A										
1										

1. COMPO	AIR FORCE		FY 20	18 MIL	ITARY (CONSTR	νυςτιο	N PRO	GRAM	2. DATE	(YYYMMDD) 2016093	0			
3. INSTALL	ATION AND LOCATION				4. COM	MAND				5. AREA	AREA CONSTRUCTION				
INCIRLIK TURKEY	AIR BASE			UNITED STATES AIR FORCES IN COST INDEX EUROPE 1											
6. PERSON	INEL	(1)	PERMAN	ENT	(2)	STUDEN	TS	(3)	SUPPOR	TED	то	TAL			
a 48.05	20 Con 16	104	ENLISTED	CIVILIAN 0.4.1	OFFICER	ENLISTED	CIVILIAN	0FFICER	102	CIVILIAN		2 269			
	2022	104	970	941				10	100	55		2,209			
D. END FY	2022 DRY DATA (\$000)	101	900	942				9	180	55		2,240			
a. TOTA	LACREAGE	3,427													
b. INVE	NTORY TOTAL AS OF	30-Sep	-16									1,298,965			
d. AUTH	IORIZATION REQUESTED IN	THIS PE		I (FY 201	8)							48,697			
e. PLAN	e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2019-2022)										0				
f. REMAINING DEFICIENCY 130,200 g. GRAND TOTAL 1,514,528															
8. PROJEC	TS REQUESTED IN THIS PR	OGRAM	(FY 2018	8)											
	(2) PR		TEGOR	(3) SCOP	F	b. C	OST	C. DESIG	N STATUS			
721-312	Dormitory - 216 PN	002011					8,208	SM	25,	997	04/17	05/18			
730-839	OIR: Relocate Base Mai	n Acces	ss Cont	rol Poi	nt		1,557	SM	14,	600	06/17	04/17			
872-245	OIR: Replace Perimeter	rence				<u> </u>	18,604	LM	8,	100	N	/ A			
						1									
								TOTAL	48,	697					
					FU	JTURE P	ROJECTS	S TOTAL	1	0					
R&M UNFU	NDED REQUIREMENT (\$M)							TOTAL	9	.1					
Incirlik spectrum, talents o	Air Base is home to th world-class forward o f our men and women.	e 39th peratin	Air Bas g base	se Wing support	. The matter to exp	mission pedition	of the nary fo	39th A rces wh	ir Base ile dev	Wing i eloping	s to provida the profes:	ə full- sional			
11. OUISI	ANDING POLLUTION AND S	SAFEIYL	DEFICIEN	ICIES (F	Y 2018-20	022)									
a. Air P	ollution														
b. Wate	r Pollution														
c. Occu	pational Safety and Health														
d. Othe	r Environmental														
					<u>IST</u> ANDI	NG DEFIC		<u>s total</u>		0					

1. COMPONENT		FY 2018 MIL	TARY CONSTRU	CTION	PROJECT DA	TA	2. DATE				
AIR FORCE			(computer ger	erate	d)						
3. INSTALLATION	, SIT	E AND LOCATION		4. PROJECT TITLE							
INCIRLIK AIR BA	SE AD	ANA		DORMITORY - 216 RM							
INCIRLIK AB SIT	E # 1										
TURKEY		1									
5. PROGRAM ELEM	8. PROJECT C	COST (\$000)									
27576		721-312	2370/1	LJYC09	3002	25,	997				
	9. COST ESTIMATES										
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)				
DDIWNDW BAGTI IM							10.070				
PRIMARY FACILITY						0.103	18,2/8				
DORMITORY - 21	5 RM			SM	8,208	2,183	(17,920)				
SUSTAINABILITY	AND I	INERGI MEASURES					(358)				
SUPPORTING FACIL	ITIES						4,969				
UTILITIES				LS			(1,900)				
PAVEMENTS				LS			(650)				
SITE IMPROVEMEN	NTS				0 702	140	(700)				
COMMUNICATION	SUPPOR	217		LS	9,782	140	(1,309)				
STIRTOTAL.		-					22.248				
CONTINGENCY	(5	5 (1%)					1 162				
TOTAL CONTRACT (י . יוופיד					-	24 410				
SUPERVISION. INS	PECTI	ON AND OVERHEAD	(6.5%)				1,587				
TOTAL REQUEST	1 1011		(0.5%)			-	25,997				
TOTAL REQUEST (F	OUNDE	:D)					25,997				
EQUIPMENT FROM C	THER	APPROPRIATIONS (NON	I-ADD)				(1,400)				
10. Descripti	on of	Proposed Constru	uction: Con	nstru	ct a multi	-story 216 1	room				
dormitory at I	ncirl	.ik Air Base using	g the Air Fo	orce	"Dorms for	- Airmen" roo	om				
configuration.	Cons	struction will ind	clude reinfo	orced	concrete	foundations	and floor				
slabs, reinfor	ced c	concrete walls and	d a sloped :	roof	systems. 1	The project w	vill				
include all ne	cessa	ry utilities, sid	te improvem	ents,	pavements	s, communicat	tions				
facility The	, eie proje	evators and all of	ree building	acess Te (9	ary tor a 782 gm) 7	complete and	useadle				
compliance wit	h cur	rent US Air Force	e and Turki	sh se	ismic code	e regulations	3.				
- Facilities wil	l be	designed as perma	anent const:	ructi	on in acco	ordance with	the DoD				
Unified Facili	ties	Criteria (UFC) 1-	-200-01, Ge	neral	Building	Requirements	and UFC				
1-200-02, High	Perf	ormance and Susta	ainable Bui	lding	Requireme	ents. This pr	oject will				
comply with Do	D ant	iterrorism/force	protection	requ	irements p	per UFC 4-010	0-01.				
Air Conditioni	ng:	150 Tons									
11. Requiremen	11. Requirement: 8208 SM Adequate: 0 SM Substandard: 9782 SM										
PROJECT: Dorm	PROJECT: Dormitory - 216 RM (Current Mission)										
REQUIREMENT:	A 216	room dorm using	the Air For	rce "I	Dorms for	Airman" star	ndard				
Configuration	ir Base. In order to meet surety mission response requirements. Security Forces										
personnel must	be a	ble to muster and	d respond w	ithin	moments r	otice. In or	der to				
allow Security	Ford	es Airmen to must	ter within :	requi	red respon	nse timeframe	e, the dorm				
must be sited	in cl	ose proximity to	the Base D	efens	e Operatio	ons Center.					
CURRENT SITUAT	URRENT SITUATION: Existing dorms utilized by Security Forces Airmen are										
FORM 1391	ס דיכר	9 Provin	us editions	are	obsolete		Page No				

1. COMPONENT	FY 2018 MIL	FY 2018 MILITARY CONSTRUCTION PROJECT DATA							
AIR FORCE		(computer generated)							
3. INSTALLATION	, SITE AND LOCATION	, SITE AND LOCATION 4. PROJECT TITLE							
INCIRLIK AIR BA	SE ADANA	RM							
INCIRLIK AB SIT	E # 1								
TURKEY									
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)						
27576	721-312	2 2370/LJYC093002 25,997							

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.

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.

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&M Conducted: \$120K BY-1 Unaccompanied Housing R&M Conducted: \$0K Future Unaccompanied Housing R&M Requirements: \$0K

FOREIGN CURRENCY: FCF Budget Rate Used: LIRA 3.4789

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.

1. COMPONENT		FY 2018 MILITARY	CONSTRUC	TION PROJECT	DATA	2. DATE				
AIR FORCE		(comp	iter gene	rated)						
3. INSTALLATI	ON AND L	OCATION		4. PROJECT	FITLE					
INCIRLIK AIR INCIRLIK AB S	BASE ADA ITE # 1	NA		DORMITORY -	216 RM					
	EMENT	6 CATEGORY COD		TECT NIMBED		እሮሞ (\$000)				
27576		721-312	2370	LJYC093002	25,99	97				
12. SUPPLEMEN	12. SUPPLEMENTAL DATA:									
a. Estimated Design Data:										
(1) Statu	ls:									
(a) Da	te Desig	yn Started			01	-APR-17				
(b) Pa	rametrio	c Cost Estimates u	used to d	evelop costs		YES				
* (c) Pe	ercent Co	omplete as of 01 J	AN 2017			65%				
* (d) Da	te 35% I	Designed			01	-OCT-17				
(e) Da	te Desig	gn Complete			01	-MAY-18				
(f) Er	lergy Stu	udy/Life-Cycle and	lysis wa	s/will be per	formed	YES				
(2) Basis	andard (or Definitive Desi	an -			NO				
(b) Wh	ere Desi	ign Was Most Recer	tly Used	-		110				
(3) Total	. Cost (d	(a) = (a) + (b) or	(d) + (e):		(\$000)				
(a) Pr	oduction	n of Plans and Spe	cificati	ons		1,560				
(b) Al	.1 Other	Design Costs				780				
(c) To	otal					2,340				
(d) Co	ntract					1,950				
(e) In	-house					390				
(4) Const	ruction	Contract Award				18 AUG				
(5) Const	ruction	Start				18 SEP				
(6) Const	ruction	Completion				20 DEC				
* Indicat which i cost an	es compl s compan d execut	letion of Project rable to tradition rability.	Definiti al 35% d	on with Param esign to ensu	etric Cost Es re valid scop	timate e,				
b. Equipmer	it associ	iated with this pr	oject pr	ovided from c	ther appropri	ations:				
				FISC	AL YEAR					
EQUIPMEN	I NOMENC	LATURE A	PROCURIN PPROPRIA	G APPRO	PRIATED QUESTED	COST (\$000)				
FURNISHI	NGS		3400	2	2020	1,300				
COMMUNIC	ATION EQ	UIPMENT	3400	2	2020	100				
DD FORM 1391, 1	DEC 99	Previous	ditions	are obsolete	. F	age No.				

1. COMPONENT		FY 20	18 MIL	ITARY (CONSTR	υστιο	N PRO	GRAM	2. DATE	(YYYMMDD) 20160930)
3. INSTALLATION AND LOCATION RAF FAIRFORD				4. COMMAND 5. AREA CONSTRUCTION UNITED STATES AIR FORCES IN COST INDEX						ON	
6. PERSONNEL	(1) F	PERMAN	ENT	(2)	STUDEN	ITS	(3)	SUPPOR	TED	1.4	
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	10	IAL
a. AS OF 30-Sep-16	0	0	64	0	0	0	0	0	0		64
b. END FY 2022	0	0	64	0	0	0	0	0	0		64
7. INVENTORY DATA (\$000)	1 070										
a. TOTAL ACREAGE b. INVENTORY TOTAL AS OF	1,976 30-Sep-	-16									660,365
c. AUTHORIZATION NOT YET IN INV	ENTOR										45,650
d. AUTHORIZATION REQUESTED IN	N THIS PF	ROGRAM	I (FY 201	(8)							45,650
e. PLANNED IN NEXT FOUR PROGE	RAM YEA	RS (FY2	2019-202	2)							0
g. GRAND TOTAL											751,665
8. PROJECTS REQUESTED IN THIS PR	OGRAM	(FY 2018	8)								
(1) CODE (2) PR			ſ		· ·	3) SCOP	F	b. C	20ST	C. DESIG	N STATUS
141-456 EIC - RC-135 Intel and	d Squad	Ops Fa	cility		· · ·	4,089	SM	38,	000	Design	/Build
111-115 EIC - RC-135 Runway Ov	verrun H	Reconfig	guratio	n		30,610	SM	5,	500	Design	/Build
813-228 EIC - RC-135 Infrastru	ucture					37	SM	2,	150	Design	/Build
					1			1			
							TOTAL	4 6	650		
9 FUTURE PROJECTS IN NEXT FOUR	PROGR		2S (FY20)19 - FY2	022)		TUTAL	43,	000		
				FL	JTURE PF	ROJECT	S TOTAL		0		
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	0	. 4		
10. MISSION OR MAJOR FUNCTIONS RAF Fairford is an inactive bas B-2, and other aircraft. Futur	e utili e missi	zed for ons inc	numero lude ti	ous tra he RC-1	ining m: 35.	issions	with p	artner	nations	to include	в-52, в-1,
11. OUTSTANDING POLLUTION AND S	SAFETY D	DEFICIEN	ICIES (F	Y 2018-2	022)						
a. Air Pollution											
b. Water Pollution											
c. Occupational Safety and Health											
d. Other Environmental											
			OUT	ISTANDI	NG DEFIC		S TOTAL		0		

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	JCTION	PROJECT DA	ГА	2. DATE			
AIR FORCE		(computer generated)								
3. INSTALLATION	, SITE	E AND LOCATION		4. PI	ROJECT TITLE	5				
RAF FAIRFORD				EIC - RC-135 INTEL AND SQUAD OPS FACILITY						
RAF FAIRFORD SI	TE # 1	L								
UNITED KINGDOM						0				
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)			
27576		141-456	2066,	/GKVB1	63017	3	38,000			
9. COST ESTIMATES										
				TT / N	0	UNIT	COST			
		TIEW		U/M	QUANTITY		(\$000)			
PRIMARY FACILIT	IES						27,316			
INTEL SCIF FAC	ILITY	(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 S	SCIF (141-753)		SM	372	4,399	(1,636)			
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(459)			
SUPPORTING FACII	LITIES						6,671			
UTILITIES				LS			(1,327)			
PAVEMENTS				LS			(1,677)			
SITE IMPROVEMEN	NTS			LS		ĺ	(1,052)			
EMERGENCY GENE	RATOR			LS			(320)			
ANTENNA TOWER				LS			(75)			
PASSIVE AT/FP 1	MEASUR	ES		LS			(1,170)			
COMMUNICATION	SUPPOR	т		LS			(1,050)			
SUBTOTAL						-	33,987			
CONTINGENCY	(5.0%)					1,699			
TOTAL CONTRACT (COST					-	35,687			
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(2.5%)				892			
DESIGN/BUILD - I	DESIGN	COST (4.0% OF \$	SUBTOTAL)				1,360			
TOTAL REQUEST						-	37,939			
TOTAL REQUEST (F	ROUNDE	D)					38,000			
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							13,465			
10. Descripti intelligence a utilizing conv	0. Description of Proposed Construction: Construct a two-story combined ntelligence and squadron operations facility for RC-135 bed down on RAF Fairford, tilizing conventional design and construction methods to accommodate the mission									

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		FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE							
AIR FORCE	(computer generated)								
3. INSTALLATION	TION, SITE AND LOCATION 4. PROJECT TITLE								
RAF FAIRFORD				EIC - RC-135 INT	EL AND SQUAD C	PS FACILITY			
RAF FAIRFORD SI	TE # 1								
5. FROGRAM ELEMENT 6. CATEGORY CODE 7. RESULD FRODECT NUMBER 8. FRODECT COST (\$000)									
27576		141-456	2066	/GKVB163017	38	3,000			
Air Conditioni	ng:	300 Tons							
11. Requiremer	nt: 40	89 SM Adequate:	: 0 SM	Substandard: 0	SM				
PROJECT: Euro Squadron Opera	pean tions	Infrastructure Cor Facility (New Mis	nsolidatio ssion)	on (EIC) - RC-13	5 Intelligen	ce and			
REQUIREMENT:	Const	ruct intelligence	processin	g and squadron	operations f	acility in			
support of RC-	135 m	ission relocation	to RAF Fa	irford due to a	rrive in FY2	1.			
Intelligence p	roces	sing and analysis	space in	this facility w	vill include	2,230 SM			
of Sensitive C	lompar	tmented Informatio	on Facilit	y (SCIF) space	with Nationa	l Security			
Administration	Netw	ork (NSANet), Joir	nt Worldwi	de Intelligence	e Communicati	ons System			
(JWICS), Secre	t Int	ernet Protocol Rou	iter (SIPR	1), Non-classifi	ed Internet	Protocol			
Router (NIPR)	netwo	rk connectivity, s	SECURE VO1	Ce/Voice over S	ecure Intern	et itw			
Other non-SCIE	'spac	e includes a 93 SN	Manguage	a lab and 743 SM	f of administ	rative			
space for 488t	h Int	elligence Squadror	n (488 IS)	mission suppor	t functtions	•			
Provision with	nin th	e structure for th	ne 95th Re	connaissance Sq	uadron (95 R	S) will			
include 651 SM	I SCIF	space for mission	n planning	, life support,	and 372 SM	for 95 RS			
administrative	e/lead	ership & control f	Eunctions	in the squadron	operations	section.			
SCIF spaces wi	.11 in	clude but are not	limited t	o classified st	orage in the	facility.			
All SCIF space (ICD) 705.	es in	this facility shal	ll comply	with Intelligen	ice Community	Directive			
CURRENT SITUAT	ION:	Closure of RAF Mi	ildenhall	is driving the	relocation o	f the 488			
IS and 95 RS f	rom R	AF Mildenhall to H	RAF Fairfo	ord. No facility	' is availabl	e for the			
488 IS to supp	ort t	he RC-135 mission	coming to	RAF Fairford.	There are no				
facilities on	RAF F	airford for the 95	5 RS to us	e as a squadron	operations	facility.			
IMPACT IF NOT	PROVI	<u>DED:</u> RAF Fairford	does not	have available	SCIF space	to support			
the 488 IS and	195 R	S missions. Failu	ire to pro	wide the SCIF a	ind Non-SCIF	space will			
jeopardize the	e abii itica	ity of the 400 IS	support o	t timely in-the	ed forces U	s and S national			
decision maker	s as	well as tactical w	varfighter	s on the ground	l and in the	air.			
Furthermore, t	he 95	RS will not have	an adequa	te permanent fa	cility to co	nduct			
mission planni	.ng, l	ife support operat	ions and	administrative	functions, s	everely			
limiting the a	bilit	y of the 95 RS to	launch an	d recover RC-13	5 intelligen	ce			
collection sor	ties	from RAF Fairford.	. In addi	tion, failure t	o provide an	adequate			
permanent faci	lity	for the 488 IS and	1 95 RS wi	ll prevent the	timely closu	re of RAF			
Mildenhall and	l puts	at risk the assoc	ciated bas	e operating and	l support (BO	S) costs			
savings associ	ated	with European Infi	rastructur	e Consolidation	i (EIC) until	new			
		s are constructed	at KAF Fa			1004			
ADDITIONAL: 7	ADDITIONAL: This project meets the criteria/scope in Air Force Manual 32-1084								
evaluating sta	tus a	uo, renovation and	l new cong	truction indica	tes that new				
construction i	s the	most economical o	option whi	ch meets missio	n requiremen	ts. An			
economic analy	rsis o	f reasonable optic	ons for ac	complishing thi	s project is	being			
prepared. This	s proj	ect is not within	an establ	ished NATO capa	bility packa	ge for			
common funding	, nor	is it expected to	o become e	ligible. Curren	nt NATO polic	У			
indicates that	this	requirement will	continue	to be a user re	sponsibility	. The			
DD FORM 1391,	DEC 9	9 Previou	s edition	s are obsolete.	I	Page No.			

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	JCTION PROJECT DAT	ГА	2. DATE				
AIR FORCE		(computer generated)								
3. INSTALLATION	TION, SITE AND LOCATION 4. PROJECT TITLE									
RAF FAIRFORD				EIC - RC-135 INT	EL AND SQUAD C	PS FACILITY				
RAF FAIRFORD SI	TE # 1	L								
UNITED KINGDOM										
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)				
27576		141-456	2066	/GKVB163017	38	3,000				
reason for the	cost	of supporting fac	cilities b	eing more than	25% of the c	ost of				
primary facilities is due extensive supporting communications infrastructure										
requirements a	s wel	l emergency genera	ator and a	ntenna requirem	ents. 420th	Air Base				
Squadron Base	Civil	Engineer: 044-128	35-714991.	Intel SCIF Fac	ility: 2,230	SM =				
24,004 SF; Int 7,007 SF; Squa	el No d Ops	on SCIF Facility: 8 8 Non SCIF: 372 SM	336 SM = 8 = 4,004 S	,999 SF; Squad F.	Ops SCIF: 65	1 SM =				
FOREIGN CURREN	ICY:	FCF Budget Rate Us	sed: POUND	.8072						
JOINT USE CEPT	ידדירים	TTON: This facilit	v can be	used by other o	omponents on	an "as				
available" bas	is: h	lowever, the scope	of the pr	oject is based	on Air Force	~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				
requirements.			01 0110 F1							
1										
IR FOCE (Computer generated) 3. INSTALLATION AND LOCATION 4. PROJECT TITLE SAF FAIRFORD III FORD SAF FAIRFORD SITE # 1 IIII FORD INITED KINGDOM 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000 27576 141-456 2066/GKVE163017 38,000 12. SUPPLEMENTAL DATA: a. Estimated Design Data: 11 11 (1) Project to be accomplished by design-build procedures 2,360 (2) Basis: (a) Standard or Definitive Design - NO (b) Where 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: FISCAL YEAR PROCURING APPERC APPEROPEIATED COST OR REQUESTED (\$000 UNINTERRUPTABLE POWER SUPPLY 3080 2020 2,800 Scourtions Equipment 3400 2018 9,315 COMMUNICATIONS EQUIPMENT 3400 2018		11 2010 MIDIIM		errow recoller	DIIII					
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3. INSTALLATION AND LOCATION 4. PROJECT TITLE ARF FAIRFORD 4. PROJECT TITLE EIC - RC-135 INTEL AND SQUAD OPS FACILITY INTED KINGDOM FACILITY 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. FROJECT NUMBER 8. PROJECT COST (\$000 27576 141-456 2066/GKVB163017 38,000 12. SUPPLEMENTAL DATA: a. Estimated Design Data: 11 7. FROJECT NUMBER 8. PROJECT COST (\$000 12. SUPPLEMENTAL DATA: a. Estimated Design Data: 0 7. FROJECT NUMBER 8. PROJECT COST (\$000 12. SUPPLEMENTAL DATA: a. Estimated Design Data: 0 141-456 2066/GKVB163017 38,000 12. SUPPLEMENTAL DATA: a. Estimated Design Data: 0 0 38,000 0 12. SUPPLEMENTAL DATA: a. Estimated Design Costs 2,360 0 0 0 (a) Standard or Definitive Design - NO (b) Where Design Costs 2,360 2,360 0 0 0 (4) Construction Contract Award 18 FEB 18 MAR 18 MAR 0 20 JUN 0 0 0 0 0 0 0 0 <	IR FORCE	(COI	mputer ger	lerated)						
5. PROGRAM ELEMENT 27576 6. CATEGORY CODE 141-456 7. PROJECT NUMBER 2066/GKVB163017 8. PROJECT COST (\$000 38,000 12. SUPPLEMENTAL DATA: .	3. INSTALLATION AND L 2AF FAIRFORD 2AF FAIRFORD SITE # 1 INITED KINGDOM	OCATION		4. PROJECT TI EIC - RC-135 FACILITY	TLE INTEL AND S(QUAD OPS				
27576141-4562066/GKVE16301738,00012. SUPPLEMENTAL DATA:a. Estimated Design Data:(1) Project to be accomplished by design-build procedures(2) Basis: (a) Standard or Definitive Design - (b) Where Design Was Most Recently Used -(3) All Other Design Costs2,360(4) Construction Contract Award18 FEB(5) Construction Completion20 JUN(7) Energy Study/Life-Cycle analysis was/will be performedYESb. Equipment associated with this project provided from other appropriations:FISCAL YEAR APPROPRIATED OR REQUESTEDCOST (\$000FURNISHINGS, FIXTURES & EQUIP34002020600UNINTERRUPTABLE POWER SUPPLY30802020250SECURITY ALARM/BADGE/SENSOR30802020500ICD 705 SURVEILLANCE340020189,315	. PROGRAM ELEMENT	6. CATEGORY C	ODE 7. PF	OJECT NUMBER	8. PROJECT	COST (\$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: $\frac{PROCURING APPRC}{FISCAL YEAR} COST EQUIPMENT NOMENCLATURE ($000 FURNISHINGS, FIXTURES & EQUIP 3400 2020 600 UNINTERRUPTABLE POWER SUPPLY 3080 2020 250 COMMUNICATIONS EQUIPMENT 3400 2020 2,800 SECURITY ALARM/BADGE/SENSOR 3080 2020 500 ICD 705 SURVEILLANCE 3400 2018 9,315$	27576	141-456	206	6/GKVB163017	3	38,000				
a. Estimated Design Data: (1) Project to be accomplished by design-build procedures (2) Basis: (a) Standard or Definitive Design - (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: $\frac{FISCAL YEAR}{OR REQUESTED} ($000 FURNISHINGS, FIXTURES & EQUIP 3400 2020 600 UNINTERRUPTABLE POWER SUPPLY 3080 2020 2,800 SECURITY ALARM/BADGE/SENSOR 3080 2020 500 ICD 705 SURVEILLANCE 3400 2018 9,315$	2. SUPPLEMENTAL DATA	A:								
(1) Project to be accomplished by design-build procedures (2) Basis: NO (a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used - NO (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: FISCAL YEAR APPROPRIATED (\$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	a. Estimated Design	n Data:								
(2) Basis: (a) Standard or Definitive Design - (b) Where Design Was Most Recently Used -NO(3) All Other Design Costs2,360(4) Construction Contract Award18 FEB(5) Construction Start18 MAR(6) Construction Completion20 JUN(7) Energy Study/Life-Cycle analysis was/will be performedYESb. Equipment associated with this project provided from other appropriations:FISCAL YEAR APPROPRIATED OR REQUESTEDCOST (\$000FURNISHINGS, FIXTURES & EQUIP34002020600UNINTERRUPTABLE POWER SUPPLY30802020250SECURITY ALARM/BADGE/SENSOR30802020500ICD 705 SURVEILLANCE340020189,315	(1) Project to be	accomplished b	y design-l	ouild procedur	es					
(3) All Other Design Costs2,360(4) Construction Contract Award18 FEB(5) Construction Start18 MAR(6) Construction Completion20 JUN(7) Energy Study/Life-Cycle analysis was/will be performedYESb. Equipment associated with this project provided from other appropriations:YESconstructions, Fixtures & Equip34002020furnishings, fixtures & Equip34002020250constructions Equipment34002020250security Alarm/Babge/sensor30802020500icd 705 SURVEILLANCE340020189,315	(2) Basis: (a) Standard ((b) Where Des:	or Definitive De ign Was Most Rec	esign - cently Use	d-		NO				
(4) Construction Contract Award18 FEB(5) Construction Start18 MAR(6) Construction Completion20 JUN(7) Energy Study/Life-Cycle analysis was/will be performedYESb. Equipment associated with this project provided from other appropriations:FISCAL YEAR APPROPRIATED OR REQUESTEDCOST (\$000FURNISHINGS, FIXTURES & EQUIP34002020600UNINTERRUPTABLE POWER SUPPLY30802020250SECURITY ALARM/BADGE/SENSOR30802020500ICD 705 SURVEILLANCE340020189,315	(3) All Other Des	ign Costs				2,360				
(5) Construction Start18 MAR(6) Construction Completion20 JUN(7) Energy Study/Life-Cycle analysis was/will be performedYESb. Equipment associated with this project provided from other appropriations:YESEQUIPMENT NOMENCLATUREPROCURING APPRCFISCAL YEAR APPROPRIATED OR REQUESTEDCOST (\$000FURNISHINGS, FIXTURES & EQUIP34002020600UNINTERRUPTABLE POWER SUPPLY30802020250COMMUNICATIONS EQUIPMENT340020202,800SECURITY ALARM/BADGE/SENSOR30802020500ICD 705 SURVEILLANCE340020189,315	(4) Construction	Contract Award				18 FEB				
(6) Construction Completion20 JUN(7) Energy Study/Life-Cycle analysis was/will be performedYESb. Equipment associated with this project provided from other appropriations:FISCAL YEAR APPROPRIATEDCOST (\$000EQUIPMENT NOMENCLATUREPROCURING APPRCFISCAL YEAR APPROPRIATEDCOST (\$000FURNISHINGS, FIXTURES & EQUIP34002020600UNINTERRUPTABLE POWER SUPPLY30802020250COMMUNICATIONS EQUIPMENT340020202,800SECURITY ALARM/BADGE/SENSOR30802020500ICD 705 SURVEILLANCE340020189,315	(5) Construction	Start				18 MAR				
(7) Energy Study/Life-Cycle analysis was/will be performedYESb. Equipment associated with this project provided from other appropriations:FIGCURING APPRCEQUIPMENT NOMENCLATUREPROCURING APPRCFURNISHINGS, FIXTURES & EQUIP34002020COMMUNICATIONS EQUIPMENT34002020SECURITY ALARM/BADGE/SENSOR30802020ICD 705 SURVEILLANCE34002018										
b. Equipment associated with this project provided from other appropriations: PROCURING APPRC EQUIPMENT NOMENCLATURE COST 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	(6) Construction	Completion				20 JUN				
FURNISHINGS, FIXTURES & EQUIP34002020600UNINTERRUPTABLE POWER SUPPLY30802020250COMMUNICATIONS EQUIPMENT340020202,800SECURITY ALARM/BADGE/SENSOR30802020500ICD 705 SURVEILLANCE340020189,315	<pre>(6) Construction (7) Energy Study/ b Equipment associ</pre>	Completion Life-Cycle anal	ysis was/v	will be perfor	med	20 JUN YES				
UNINTERRUPTABLE POWER SUPPLY30802020250COMMUNICATIONS EQUIPMENT340020202,800SECURITY ALARM/BADGE/SENSOR30802020500ICD 705 SURVEILLANCE340020189,315	(6) Construction(7) Energy Study/b. Equipment associEQUIPMENT NOMENCI	Completion Life-Cycle anal iated with this LATURE	ysis was/v project p PROCURING	will be perfor rovided from o FISC. APPRC APPRC OR RF	rmed other approp AL YEAR DFRIATED EQUESTED	20 JUN YES priations: COST (\$000				
COMMUNICATIONS EQUIPMENT340020202,800SECURITY ALARM/BADGE/SENSOR30802020500ICD 705 SURVEILLANCE340020189,315	 (6) Construction (7) Energy Study/ b. Equipment associated EQUIPMENT NOMENCIATED FURNISHINGS, FIX* 	Completion Life-Cycle anal iated with this LATURE TURES & EQUIP	ysis was/v project p PROCURING 3400	will be perfor rovided from o FISC APPRC APPRC OR RE	rmed other approp AL YEAR DPRIATED EQUESTED 2020	20 JUN YES Driations: COST (\$000 600				
SECURITY ALARM/BADGE/SENSOR30802020500ICD 705 SURVEILLANCE340020189,315	 (6) Construction (7) Energy Study/ b. Equipment association EQUIPMENT NOMENCE FURNISHINGS, FIXE UNINTERRUPTABLE E 	Completion Life-Cycle anal iated with this LATURE TURES & EQUIP POWER SUPPLY	ysis was/v project p PROCURING 3400 3080	will be perfor rovided from o FISC APPRC APPRC OR RE	med other approp AL YEAR DPRIATED EQUESTED 2020 2020	20 JUN YES priations: COST (\$000 600 250				
ICD 705 SURVEILLANCE 3400 2018 9,315	 (6) Construction (7) Energy Study/ b. Equipment association EQUIPMENT NOMENCA FURNISHINGS, FIX UNINTERRUPTABLE TO COMMUNICATIONS EX 	Completion Life-Cycle anal iated with this LATURE TURES & EQUIP POWER SUPPLY QUIPMENT	ysis was/v project p PROCURING 340(308(340)	will be perfor rovided from of APPRC APPRC OR RH	med other approp AL YEAR OPRIATED EQUESTED 2020 2020	20 JUN YES priations: COST (\$000 600 250 2,800				
	 (6) Construction (7) Energy Study/ b. Equipment associated EQUIPMENT NOMENCIATIONS EQUIPMENT NOMENCIATIONS EQUIPMENTIONS EQUIPMENTIONS EQUIPMENTIONS EQUIPMENTIONS EQUIPMENTIALARM/EDUIPMENTIONS 	Completion Life-Cycle anal iated with this LATURE TURES & EQUIP POWER SUPPLY QUIPMENT ADGE/SENSOR	ysis was/v project p PROCURING 340(308(308(308(will be perfor rovided from o FISC APPRC APPRC OR RE 0 2 0 2 0 2 0 2	med other approp AL YEAR DPRIATED EQUESTED 2020 2020 2020 2020	20 JUN YES priations: (\$000 600 250 2,800 500				
	 (6) Construction (7) Energy Study/ b. Equipment association EQUIPMENT NOMENCIATIONS EXECUTIONS E	Completion Life-Cycle anal iated with this LATURE TURES & EQUIP POWER SUPPLY QUIPMENT ADGE/SENSOR ANCE	ysis was/ project p PROCURING 3400 3400 3400 3400	will be perfor rovided from (APPRC APPRC OR RH)))))))))))))))))))	rmed other approp AL YEAR OPRIATED EQUESTED 2020 2020 2020 2020 2020	20 JUN YES priations: (\$000 250 2,800 500 9,315				
	 (6) Construction (7) Energy Study/ b. Equipment association EQUIPMENT NOMENCY FURNISHINGS, FIX UNINTERRUPTABLE TO COMMUNICATIONS EXECUTIONS EXEC	Completion Life-Cycle anal iated with this LATURE TURES & EQUIP POWER SUPPLY QUIPMENT ADGE/SENSOR ANCE	ysis was/v project p PROCURING 340(340(308(340(340(will be perfor rovided from (APPRC APPRC OR RH)))))))))))))))))))	rmed other approp AL YEAR OPRIATED EQUESTED 2020 2020 2020 2020 2020	20 JUN YES priations: (\$000 250 2,800 500 9,315				
	 (6) Construction (7) Energy Study/ b. Equipment associated EQUIPMENT NOMENCIATIONS FURNISHINGS, FIXTURINITERRUPTABLE COMMUNICATIONS EXECURITY ALARM/BLICD 705 SURVEILLE 	Completion Life-Cycle anal iated with this LATURE TURES & EQUIP POWER SUPPLY QUIPMENT ADGE/SENSOR ANCE	ysis was/v project p PROCURING 3400 3400 3400 3400	will be perfor rovided from of FISC APPRC APPRC OR RE 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2	med other approp AL YEAR DPRIATED EQUESTED 2020 2020 2020 2020 2018	20 JUN YES priations: (\$000 600 250 2,800 500 9,315				
	<pre>(6) Construction (7) Energy Study/ b. Equipment associ EQUIPMENT NOMENCY FURNISHINGS, FIX' UNINTERRUPTABLE : COMMUNICATIONS E SECURITY ALARM/B ICD 705 SURVEILL</pre>	Completion Life-Cycle anal iated with this LATURE TURES & EQUIP POWER SUPPLY QUIPMENT ADGE/SENSOR ANCE	ysis was/v project p PROCURING 3400 3400 3400 3400	will be perfor rovided from (APPRC APPRC OR RH)))))))))))))))))))	rmed other approp AL YEAR DPRIATED EQUESTED 2020 2020 2020 2020 2018	20 JUN YES priations: COST (\$000 250 2,800 500 9,315				
	 (6) Construction (7) Energy Study/ b. Equipment associated EQUIPMENT NOMENCIATIONS FURNISHINGS, FIXTUR UNINTERRUPTABLE TO COMMUNICATIONS EXECUTIONS FOR SECURITY ALARM/BLICD 705 SURVEILLE 	Completion Life-Cycle anal iated with this LATURE TURES & EQUIP POWER SUPPLY QUIPMENT ADGE/SENSOR ANCE	ysis was/v project p PROCURING 3400 3400 3400 3400	will be perfor rovided from of APPRC APPRC OR RH)))))))))))))))))))	rmed other approp AL YEAR DPRIATED EQUESTED 2020 2020 2020 2020 2018	20 JUN YES priations: (\$000 600 250 2,800 500 9,315				
	 (6) Construction (7) Energy Study/ b. Equipment association EQUIPMENT NOMENCH FURNISHINGS, FIXTUNINTERRUPTABLE COMMUNICATIONS EX SECURITY ALARM/BL ICD 705 SURVEILL 	Completion Life-Cycle anal iated with this LATURE TURES & EQUIP POWER SUPPLY QUIPMENT ADGE/SENSOR ANCE	ysis was/v project p PROCURING 3400 3400 3400	will be perfor rovided from (APPRC APPRC OR RH)))))))))))))))))))	rmed other approp AL YEAR DPRIATED 2020 2020 2020 2020 2020 2018	20 JUN YES priations: COST (\$000 250 2,800 500 9,315				
	 (6) Construction (7) Energy Study/ b. Equipment association EQUIPMENT NOMENCY FURNISHINGS, FIXTON UNINTERRUPTABLE COMMUNICATIONS EX SECURITY ALARM/EX ICD 705 SURVEILLY 	Completion Life-Cycle anal iated with this LATURE TURES & EQUIP POWER SUPPLY QUIPMENT ADGE/SENSOR ANCE	ysis was/v project p PROCURING 3400 3400 3400	will be perfor rovided from (APPRC APPRC OR RH)))))))))))))))))))	rmed other approp AL YEAR DPRIATED EQUESTED 2020 2020 2020 2020 2018	20 JUN YES priations: COST (\$000 250 2,800 500 9,315				
	 (6) Construction (7) Energy Study/ b. Equipment associ EQUIPMENT NOMENCH FURNISHINGS, FIXTUNINTERRUPTABLE COMMUNICATIONS EXSECURITY ALARM/BL ICD 705 SURVEILL 	Completion Life-Cycle anal iated with this LATURE TURES & EQUIP POWER SUPPLY QUIPMENT ADGE/SENSOR ANCE	ysis was/v project p PROCURING 3400 3400 3400	will be perfor rovided from of APPRC APPRC OR RH)))))))))))))))))))	rmed other approp AL YEAR DPRIATED EQUESTED 2020 2020 2020 2020 2018	20 JUN YES priations: COST (\$000 200 2,800 500 9,315				

1. COMPONENT		FY 2018 MILIT	TARY CONSTRU	JCTION	PROJECT DA	TA	2. DATE
AIR FORCE		(0	computer gen	nerate	ed)		
3. INSTALLATION RAF FAIRFORD RAF FAIRFORD SI UNITED KINGDOM	, SITE TE # 1	E AND LOCATION		4. PI EIC -	ROJECT TITLE - RC-135 RUN	E WAY OVERRUN	RECONFIGURATION
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)
27576		111-115	2066	/GKVB1	L63020		5,500
		9. (COST ESTIM	ATES			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILIT	IES						4,285
OVERRUN, PAVED				SM	30,610	140	(4,285)
SUPPORTING FACIN	LITIES						645
UTILITIES				LS			(470)
PAVEMENTS				LS			(100)
SITE IMPROVEME	NTS			LS			(75)
SUBTOTAL							4,930
CONTINGENCY	(5.0%)					247
TOTAL CONTRACT	COST						5,177
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(2.5%)				129
DESIGN/BUILD -	DESIGN	COST (4.0% OF :	SUBTOTAL)				197
TOTAL REQUEST							5,504
TOTAL REQUEST ()	ROUNDE	D)					5,500
10. Descripti	on of	Proposed Constru	ction: Re	confi	gure easte	ern overrun	for a
displaced take	e off	runway threshold	(convert t	o tak	e-off runv	way surface) to include
renewal of air	field	l markings and adj	ustment of	airf	ield grour	d lighting	. Regrade
and resurface	weste	ern overrun and re	configure	to er	nable use f	or aircraft	take-off.
Include reloca	ting	instrument landing	g system 1 be offecto	ocali	lzer transı	litter to ne	ew level and
the new surface	appro	l install a new of	l water se	o are	or. The pr	coject inclu	udes all
necessary supp	ortin	ng work to make con	mplete and	usea	able facili	ties. Facil	lities will
be designed as	perm	anent construction	n in accor	dance	with the	DoD Unified	d Facilities
Criteria (UFC)	1-20	0-01, General Bui	lding Requ	ireme	ents and UH	C 1-200-02	, High
Performance an	nd Sus	tainable Building	Requireme	nts.	This proje	ect will con	nply with
DoD Antiterror	rism/f	force protection r	equirement	s per	: UFC 4-010	0-01.	
Air Conditioni	ng:	0 Tons	•				
11. Requiremen	nt: 30	610 SM Adequat	e: 0 SM	Subs	standard: () SM	
PROJECT: Euro (New Mission)	pean	Infrastructure Co	nsolidatio	n (El	IC) - RC-13	5 Strengthe	en Overruns
REQUIREMENT:	Regra	de, reconstruct,	strengthen	and	repaint th	ne runway ov	verruns to
permit their u	use fo	or runway displace	d take off	thre	sholds. 1	includes the	e
repositioning	of th	e western instrum	ent landin	g sys	stem locali	zer transm:	itter to a
new level, rew systems.	ring	g and modification	or runway	appr	roacn and r	runway edge	lighting
CURRENT SITUAT	ION:	The current runw	ay configu	ratio	on does not	provide a	lequate

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

1. COMPONENT	FY 2018 MILIT	ARY CONSTRU	JCTION PROJECT DAT	ГА	2. DATE
AIR FORCE	(c	computer ger	nerated)		
3. INSTALLATION	, SITE AND LOCATION		4. PROJECT TITLE	1	
RAF FAIRFORD			EIC - RC-135 RUN	WAY OVERRUN RE	CONFIGURATION
RAF FAIRFORD SI	TE # 1				
UNITED KINGDOM					
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	OST (\$000)
27576	111-115	2066	/GKVB163020	5	,500

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. <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.

ADDITIONAL: 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.

FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072

1. COMPONENT		FY 2018 MILITARY C	ONSTRU	JCTION PROJECT	DATA	2. DATE
AIR FORCE		(Compute	er gei	nerated)		
3. INSTALLATI	ON AND L	OCATION		4. PROJECT TI	TLE	
RAF FAIRFORD RAF FAIRFORD UNITED KINGDO	SITE # 1 M			EIC - RC-135 RECONFIGURATI	RUNWAY OVERRUN ON	1
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CC	ST (\$000)
27576		111-115	206	6/GKVB163020	5,	500
12. SUPPLEMEN	TAL DAT	A:				
a. Estimate	d Design	n Data:				
(1) Proje	ct to be	accomplished by de	sign-	build procedur	es	
(2) Basis (a) St	: andard o	or Definitive Design	n –			NO
(b) Wh	ere Des:	ign Was Most Recent	ly Use	ed -		
(3) All O	ther Des	ign Costs				220
(4) Const	ruction	Contract Award				18 FEB
(5) Const	ruction	Start				18 MAR
(6) Const	ruction	Completion				19 DEC
(7) Energ	y Study/	Life-Cycle analysis	was/	will be perfor	med	YES

						DRAFT	1	
1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE	
AIR FORCE		(0	omputer gen	erate	a)			
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE			
RAF FAIRFORD ST	ፕፑ # 1			EIC -	· RC-135 INF	RASTRUCTURE		
UNITED KINGDOM								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27576		813-228	2066/	GKVB1	.63021		2,150	
		9. C	OST ESTIMA	TES				
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILIT	IES						1,770	
ELECTRICAL SWI	тсн ѕт	ATION (813-228)		SM	37	17,000	(629)	
PRIMARY DISTRI	BUTION	LINE (812-225)		LM	300	1,650	(495)	
SANITARY SEWER	(832-	266)		LM	500	620	(310)	
ELECTRICAL SUB	STATIO	N (813-231)		ĸv	1,350	175	(236)	
SANITARY SEWAG	E PUMP	STATION (832-267)		EA	1	100,000	(100)	
SUPPORTING FACIN	LITIES						176	
SITE IMPROVEME	NTS			LS			(65)	
DEMOLITION				SM	327	340	(111)	
SUBTOTAL							1,946	
CONTINGENCY	(5.0%))					97	
TOTAL CONTRACT COST 2,044								
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(2.5%)				51	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF 8	SUBTOTAL)				78	
TOTAL REQUEST							2,173	
TOTAL REQUEST (ROUNDED) 2,150							2,150	
10. Description of Proposed Construction: Construct High Voltage (HV) electrical								
distribution s	witch	nclude new main ba	-135 facil	vaui ities	c, new pri	mary base r	nign voltage	
sanitary sewer	capa	city by installing	a sewer	colle	ction and	pumping fac	cility to	
include all ne	cessa	ry pumps and conti	rols in su	pport	of RC-135	5 mission re	elocation to	
RAF Fairford.	The p	roject includes a	ll necessa	ry su	pporting w	vork to make	e complete	
and useable fa	cilit	ies. Facilities w	ill be des	igned	l as permar	ent constru	uction in	
accordance wit	h the	DoD Unified Facil	lities Cri	teria	(UFC) 1-2	200-01, Gene	eral	
Requirements.	This	project will com	olv with D	oD An	mance and titerroris	m/force pro	otection	
requirements p	oer UF	C 4-010-01.						
Air Conditioni	ng:	0 Tons						
11. Requiremen	nt: 37	SM Adequate:) SM Su	bstan	dard: 0 SM	1		
<u>PROJECT:</u> Euro	pean	Infrastructure Con	nsolidatio	n (EI	C) - RC-13	35 Infrastru	ucture (New	
REOUIREMENT:	Elect	rical power distr	ibution sv	stems	are requi	red to supr	ort all	
mission requir	rement	s to include facil	lities, ai:	rfiel	ds and uti	lity system	ns. Primary	
power grids mu	ist be	provided with ele	ectrical s	witch	ing capaci	ty to ensu	re 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.

CURRENT SITUATION: The proposed RC-135 beddown site lacks sufficient

1. COMPONENT	FY 20	18 MTLTTARY CO	NSTRU	ICTION PROJECT DAT		2. DATE
ATR FORCE	11 20.		r ger	versted)		
AIR FORCE		(compute	er ger			
3. INSTALLATION,	SITE AND LOCATIO	N		4. PROJECT TITLE		
RAF FAIRFORD	- # 1			EIC - RC-135 INF	RASTRUCTURE	
RAF FAIRFORD SIT	S # 1					
5 DROGRAM ELEVE					0 550 750 7	
5. PROGRAM ELEME	6. CATEGORY	CODE /. RP	SUID/	PROJECT NUMBER	8. PROJECT C	JST (\$000)
27576	813-22	28	2066,	/GKVB163021	2	,150
infrastructure vault is locate cannot be enlar electrical dema new facilities support it. Ex location of the system will be <u>IMPACT IF NOT P</u> primary electri unreliable elec adequately supp infrastructure systems require 32-1084, "Facil evaluating stat analysis indica mission require is not within a funding, nor is item will conti Civil Engineer: 398 SF; Primary LF. FOREIGN CURRENC JOINT USE CERTI available" basi requirements.	and utilities t d immediately a ged to support nd is expected planned and the isting sewers a new RC-135 Int required to cor <u>ROVIDED:</u> Witho cal distribution trical supply a ort mission req will result in ng daily service is project meet ity Requirement us quo, renovat ted new constru- ments. A forman n established N it expected to nue to be a use 044-1285-71499 Distribution I Y: FCF Budget <u>FICATION:</u> This s; however, the	to support the adjacent to t additional s to increase a existing di are located a cel and Squad on ect to the out improving on system new and the new f guirements. inadequate of cins and supp is the criter is. " A prelim cion and new action as the al economic a NATO Infrastr o become elig or nation res 1. Electric dine: 300 LM Rate Used: P facility can a scope of th	he ne che b switc by a stri a sig a stri exis y fac facil Fail por i. cons analy guctu gible sal D s a be pr h be he pr	w mission. The ase perimeter i hgear required. s much as 100 p bution system i nificant distan Operations faci ting base sewer capacity and c ilities will ha ities planned w ure to provide efficient use o cope directed i y analysis of r truction was ac t economical op sis is being de re capability p . Current NATO ibility. 420th istribution Swi 4 LF; Sanitary .8072 used by other c oject is based	existing base in a facility The install percent as a since from the since is not configure (a from the since from the since from the since for a system. (a pability of the unable additional so of sewage collowed and the second since for the second of sewage collowed and the second since for the second since for the second since for the second	e switch that lation result of ured to proposed ew pumped the base uate and e to ewer lection Handbook ternatives This ets is project ommon cates the uadron Base 37 SM = M = 1,640 an "as

1. COMPONENT		FY 2018 MILITARY C	ONSTRU	JCTION PROJECT	DATA	2. DATE	
AIR FORCE		(compute	er ger	erated)			
3. INSTALLATI	ON AND I	OCATION		4. PROJECT TI	TLE		
RAF FAIRFORD				EIC - RC-135	INFRASTRUCTURE	2	
RAF FAIRFORD	SITE # 1	L					
UNITED KINGDO	M	1	1		1		
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PF	OJECT NUMBER	8. PROJECT CC	ST (\$000)	
27576		813-228	206	6/GKVB163021	2,	150	
12. SUPPLEMEN	NTAL DAT.	A: n Data:					
(1) Proje	at to be	aggomplished by de	sian-1	wild procedur	05		
(1) PIOJE		accomprished by de	sign-	burra procedur	65		
(2) Basis (a) St	· andard	or Definitive Design	1 -			NO	
(b) Where Design Was Most Recently Used -							
(3) All O	ther Des	sign Costs				86	
(4) Construction Contract Award 18						18 FEB	
(5) Construction Start 18						18 MAR	
(6) Const	ruction	Completion				19 JUN	
(7) Energ	y Study/	Life-Cycle analysis	was/	will be perfor	med	YES	
b. Equipmer N/A	t assoc:	iated with this pro	ject p	rovided from c	other appropri	ations:	

1. COMPONENT		FY 20	18 MIL	ITARY C	ONSTR	ΝΟΟΤΙΟ	N PRO	GRAM	2. DATE	(YYYMMDD)	
3. INSTALLATION AND LOCATION				4. COM	MAND				5. AREA) ON
RAF LAKENHEATH				UNITED	STATES	AIR FO	RCES IN		COST	INDEX	
UNITED KINGDOM				EUROPE			(0)			1.4	
6. PERSONNEL				(2)			(3)			тот	TAL
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
7. INVENTORY DATA (\$000)			1					1			
a. TOTAL ACREAGE	2,007										0 0 0 0 0 0 1
b. INVENTORY TOTAL AS OF	30-Sep	-16									3,072,621
d. AUTHORIZATION REQUESTED IN	THIS PE	ROGRAN	I (FY 201	(8)							136,992
e. PLANNED IN NEXT FOUR PROGR	AM YEA	RS (FY2	2019-202	2)							110,300
f. REMAINING DEFICIENCY											278,000
g. GRAND TOTAL		(5)(004)									3,597,913
8. PROJECTS REQUESTED IN THIS PRO	JGRAM a CA	TEGOR	3) V					h C	OST	c DESIG	STATUS
(1) CODE (2) PR(DJECT T	ITLE	•		(3) SCOP	E	(\$0	000)	(1) START	(2) COMPLETE
113-321 F-35A F-15 Parking						46,100	SM	10,	800	Design	/Build
141-753 F-35A Squadron Operati	ons and	d AMU				8,379	SM	41,	000	06/15	09/16
171-212 F-35A Flight Simulator	Facil:	lty The Dee				6,276	SM	22,	000	06/15	09/16
211-177 F-35A 6-Bay Hangar	etachine	ent rac	LIILY			4 288	SM	24	492	06/15	09/16
211-159 Consolidated Corrosion	Contro	ol Faci	lity			2,384	SM	20,	000	Design	/Build
812-225 F-35A Infrastructure			-			1,300	LM	6,	700	Design	/Build
							TOTAL	136	,992		
9. FUTURE PROJECTS IN NEXT FOUR	PROGR	AM YEAF	RS (FY20)19 - FY2()22)	4 000	C 14	27	000		
113-321 F-35A Barking Apron						4,200	SM	26.	000		
211-179 F-35A Fuel System Main	tenance	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		
				FU	TURE PH	COJECT	STOTAL	110	,300		
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	24	. 6		
10. MISSION OR MAJOR FUNCTIONS											
RAF Lakenheath is home to the 48	Bth Fig	hter Wi	ng, the	e larges	st fight	ter win	g in US	AFE. I	ts miss	ion is to tr	ain,
support, and employ a Combat Fig	ghter W	ing, ir	cluding	g one F-	-15C (49	93rd FS) and t	wo F-15 aluda t	E squad	rons (492nd	and 494th
rs) together with a squadron of	1111-00	nerrcor	JUELS (.	JU NQS).	. rucu	Le IIIISS	10115 111	ciuue i	iie r-55	A and RC-155	•
11 OUTSTANDING POLILITION AND S				V 2018-20	1221						
				1 2010-20	22)						
a. Air Pollution											
b. Water Pollution											
c. Occupational Safety and Health											
d. Other Environmental											
			OUT	ISTANDI	NG DEFIC		S TOTAL		0		

DD Form 1390, JUL 1999

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DAT	ГА	2. DATE
AIR FORCE		(c	omputer gen	erate	d)		
3. INSTALLATION RAF LAKENHEATH RAF LAKENHEATH UNITED KINGDOM	, SITE SITE #	and location		4. PF CONSC	ROJECT TITLE DLIDATED COR	ROSION CONTR	OL FACILITY
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)
27576		211-159	2470,	MSET1	43006		20,000
		9. C	OST ESTIMA	TES			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITI	IES	11 1-0.)			1.500	5 600	13,625
WASH DACK (116-	КОЦ (2 -672)	11-159)		SM	822	5,602	(8,750)
SUSTAINABILITY	AND E	NERGY MEASURES		LS	022	5,002	(4,803)
SUPPORTING FACIL	LITIES						4,189
PAINT BOOTH	PAINT BOOTH						(1,000)
UTILITIES	UTILITIES						(829)
SITE IMPROVEMEN	NTS			LS			(522)
PAVEMENTS							(1,089)
COMMUNICATIONS	COMMUNICATIONS SUPPORT						(250)
DEMOLITION	DEMOLITION						(499)
SUBTOTAL							17,814
CONTINGENCY	(5.0%))					891
TOTAL CONTRACT C	COST						18,704
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(2.5%)				468
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	SUBTOTAL)				713
TOTAL REQUEST							19,885
TOTAL REQUEST (F	ROUNDE	D)					20,000
EQUIPMENT FROM C	THER	APPROPRIATIONS (NON-	ADD)				700

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.

Air Conditioning: 40 Tons

11. Requirement: 3311 SM Adequate: 927 SM Substandard: 3713 SM <u>PROJECT:</u> Consolidated Corrosion Control Facility (Current Mission) <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

DD FORM 1391, DEC 99

Previous editions are obsolete.

1. COMPONENT

AIR FORCE

(computer generated)

3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE # 1 UNITED KINGDOM

4. PROJECT TITLE CONSOLIDATED CORROSION CONTROL FACILITY

UNITED KINGDOM			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27576	211-159	2470/MSET143006	20,000

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.

CURRENT SITUATION: 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. IMPACT IF NOT PROVIDED: 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.

ADDITIONAL: 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.

FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072

FY 2018 MILL (AND LOCATION SITE # 1 ENT 6. CATEGORY 211-15 L DATA: Design Data: to be accomplished udard or Definitive re Design Was Most er Design Costs ction Contract Awa: ction Start ction Completion Study/Life-Cycle ar associated with th	ITARY CONST (computer ga (computer ga 24 d by design e Design - Recently Us rd nalysis was his project	RUCTION PR enerated) 4. PROJE CONSOLIE FACILITY PROJECT NU 70/MSET143 -build pro sed -	COJECT DATA ECT TITLE DATED CORROSI MBER 8. PRO 3006 bocedures	2 ON CONTRO JECT COST 20,00 18 18 18 20	L (\$000 0 NO 800 AUG SEP DEC YES
AND LOCATION SITE # 1 ENT 6. CATEGORY 211-15 L DATA: Design Data: to be accomplished dard or Definitive re Design Was Most er Design Was Most ction Contract Away ction Start ction Completion Study/Life-Cycle and associated with th	Y CODE 7. 1 59 24 d by design e Design - Recently Us rd nalysis was his project	4. PROJE CONSOLII FACILITY PROJECT NU 70/MSET143 -build pro sed -	ECT TITLE DATED CORROSI (MBER 8. PRO 3006 bocedures	ON CONTRO JECT COST 20,00 18 18 20	L (\$000 0 800 AUG SEP DEC YES
SITE # 1 ENT 6. CATEGORY 211-15 L DATA: Design Data: to be accomplished dard or Definitive re Design Was Most er Design Costs ction Contract Awa: ction Start ction Start ction Completion Study/Life-Cycle and associated with th	Y CODE 7. 1 59 24 d by design e Design - Recently Us rd nalysis was his project	<pre>4. PROJE CONSOLII FACILITY PROJECT NU 70/MSET143 -build pro sed - /will be p provided</pre>	performed	ON CONTRO JECT COST 20,00 18 18 20	L (\$000 0 800 AUG SEP DEC YES
ENT 6. CATEGORY 211-15 L DATA: Design Data: to be accomplished adard or Definitive re Design Was Most er Design Costs ction Contract Awar ction Start ction Start ction Completion Study/Life-Cycle ar associated with th	Y CODE 7. 1 59 24 d by design e Design - Recently Us rd nalysis was	PROJECT NU 70/MSET14: -build pro sed - /will be p provided	MBER 8. PRO	JECT COST 20,00 18 18 20	(\$000 0 NO 800 AUG SEP DEC YES
211-15 L DATA: Design Data: to be accomplished adard or Definitive re Design Was Most er Design Costs ction Contract Awar ction Start ction Start ction Completion Study/Life-Cycle ar associated with th	59 24 d by design a Design - Recently Us rd nalysis was	70/MSET143 -build pro sed - /will be p provided	ocedures	20,00 18 18 20	0 NO 800 AUG SEP DEC YES
L DATA: Design Data: to be accomplished adard or Definitive re Design Was Most er Design Costs ction Contract Awas ction Start ction Start ction Completion Study/Life-Cycle an associated with th	d by design Design - Recently Us rd nalysis was his project	-build pro	performed	18 18 20	NO 800 AUG SEP DEC YES
Design Data: to be accomplished dard or Definitive re Design Was Most er Design Costs ction Contract Awas ction Start ction Start study/Life-Cycle an associated with th	d by design Design - Recently Us rd nalysis was his project	-build pro	performed	18 18 20	NO 800 AUG SEP DEC YES
to be accomplished dard or Definitive re Design Was Most er Design Costs ction Contract Awar ction Start ction Completion Study/Life-Cycle an associated with th	d by design e Design - Recently Us rd nalysis was his project	-build pro sed - /will be p provided	performed	18 18 20	NO 800 AUG SEP DEC YES
dard or Definitive re Design Was Most er Design Costs ction Contract Awas ction Start ction Completion Study/Life-Cycle an associated with th	e Design - Recently Us rd nalysis was his project	/will be provided :	performed	18 18 20	NO 800 AUG SEP DEC YES
er Design Costs ction Contract Awa: ction Start ction Completion Study/Life-Cycle an associated with th	rd nalysis was his project	/will be p	performed	18 18 20	800 AUG SEP DEC YES
ction Contract Awas ction Start ction Completion Study/Life-Cycle as associated with th	rd nalysis was nis project	/will be p	performed	18 18 20	AUG SEP DEC YES
ction Start ction Completion Study/Life-Cycle an associated with th	nalysis was nis project	/will be p	performed	18 20	SEP DEC YES
ction Completion Study/Life-Cycle an associated with th	nalysis was nis project	/will be p	performed	20	DEC YES
Study/Life-Cycle an associated with th	nalysis was nis project	/will be p	performed		YES
associated with th	nis project	provided			
OMENCLATURE	PROCURIN	G APPRC	FISCAL YEAR APPROPRIATEI OR REOUESTEI		COST (\$000
TION SYSTEM	30	80	2018		300
VICATION	34	00	2018		200
	34	00	2018		200
	TION SYSTEM	TION SYSTEM 30 ICATION 34 34	TION SYSTEM 3080 HICATION 3400 3400	TION SYSTEM 3080 2018 HICATION 3400 2018 3400 2018	TION SYSTEM 3080 2018 ICATION 3400 2018

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE	
AIR FORCE		(c	omputer gen	erate	d)			
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	5		
RAF LAKENHEATH				F-35A F-15 PARKING				
RAF LAKENHEATH	SITE #	1						
UNITED KINGDOM								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27142		113-321	2470,	MSET1	.53003		10,800	
		9. C	OST ESTIMA	TES				
		T (111)				UNIT	COST	
		TIEW		0/M	QUANTITY		(\$000)	
PRIMARY FACILIT	IES						7,960	
F-15 PARKING A	PRON			SM	20,100	396	(7,960)	
SUPPORTING FACIN	LITIES						1,771	
UTILITIES				LS			(900)	
SITE IMPROVEME	NTS			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%) 25							255	
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL) 389								
TOTAL REQUEST							10,862	
TOTAL REQUEST (1	ROUNDE	D)					10,800	
10. Descripti	on of	Proposed Construc	ction: Ex	pand	F-15 parki	ing on Alpha	Ramp at	
RAF Lakenheath	n to s	support the beddown	n of the F	-35A	aircraft.	Constructio	n includes	
a Portland Cen	nent C	Concrete (PCC) apro	on expansi	on. I	he project	: includes u	tilities,	
site improveme	ents a	ind all necessary s	supporting	work	to make a	a complete a	nd useable	
facility. The	proje	ect demolishes one	Tacility	(930 ha Da	SM). Facil	Lities will	be designed	
(UEC) 1-200-01	Constr	accordant accordant	nce with t	ne Do and U	EC 1-200-0	Facilities	formango	
and Sustainabl	e Bui	lding Requirements	s. This p	rojec	t will com	ngh rei Ngly with Do	D	
Antiterrorism/	force	protection require	rements pe	r UFC	4-010-01.		2	
Air Conditioni	.ng:	 0 Tons	-					
11. Requiremen	nt: 46	100 SM Adequate	e: 26000 S	м	Substandar	d: 0 SM		
PROJECT: F-35	5A F-1	.5 PARKING (New Mis	ssion)					
REQUIREMENT:	Expan	d the Alpha apron	on RAF La	kenhe	ath to cre	eate space f	or the F-15	
aircraft that	will	be displaced from	the Charl	ie Ra	mp by the	bed down of	two F-35A	
squadrons. The	a Alph	a apron expansion	must be c	onfig	ured to er	able reloca	tion of 18	
F-15 aircraft	from	Charlie apron to A	Alpha apro	n.				
CURRENT SITUAT	ION:	Currently RAF Lake	enheath ha	s 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.

<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-

1. COMPONENT	FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. D							
AIR FORCE	(computer generated)							
3. INSTALLATION, SITE	3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE							
RAF LAKENHEATH F-35A F-15 PARKING								
RAF LAKENHEATH SITE #	‡ 1							
UNITED KINGDOM								
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/	7. RPSUID/PROJECT NUMBER 8. PROJECT		OST (\$000)			
27142								
2/142	113-321	113-321 2470/MSET153003 10,80						

35A aircraft. This would negatively impact beddown of the F-35A aircraft at RAF Lakenheath.

<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.

FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072

TR FORCE		FY 2018 MILITARY C	ONSTRUCTION PROJECT	DATA	2. DATI
TNCTALLATI					
. INSTALLATI		JCATION	4. PROJECT TI	TLE	
AF LAKENHEAT	ı I SITE #	1	F-35A F-15 FA	RKING	
NITED KINGDO	1				
. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT CC	ST (\$000
27142		113-321	2470/MSET153003	10,	800
L2. SUPPLEMEN	TAL DATA	.:			
a. Estimate	d Design	Data:			
(1) Projec	t to be	accomplished by de	sign-build procedur	res	
(2) Basis:					
(a) St (b) Wh	andard c ere Desi	or Definitive Design .gn Was Most Recent.	n - Ly Used -		NO
(3) All Ot	her Des	ign Costs	-		432
(4) Consti	uction (Contract Award			18 AUG
(5) Consti	ruction a	Start			18 SEP
(6) Consti	uction (Completion			20 JUN
(7) Energy	study/	Life-Cycle analysis	was/will be perfor	rmed	YES

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE	
AIR FORCE	AIR FORCE (computer generated)							
3. INSTALLATION	, SITE	AND LOCATION		4. PF	OJECT TITLE	6		
RAF LAKENHEATH	RAF LAKENHEATH				FLIGHT SIM	ULATOR FACIL	ITY	
RAF LAKENHEATH SITE # 1								
UNITED KINGDOM								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27142 171-212 2470				MSET1	53501		22,000	
		9. C	OST ESTIMA	TES	1			
ITEM				U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILIT	IES						16,776	
FLIGHT SIMULAT	OR FAC	ILITY		SM	3,025	5,437	(16,447)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(329)	
SUPPORTING FACIN	LITIES						2,953	
UTILITIES				LS			(338)	
SITE IMPROVEMEN	NTS			LS			(41)	
PAVEMENTS				LS			(43)	
DEMOLITION				SM	156	200	(31)	
COMMUNICATIONS	SUPPO	RT		LS			(2,500)	
SUBTOTAL							19,729	
CONTINGENCY	(5.0%))					986	
TOTAL CONTRACT (COST						20,716	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(2.5%)				518	
DESIGN/BUILD - I	DESIGN	COST (4.0% OF 5	SUBTOTAL)				789	
TOTAL REQUEST							22,023	
TOTAL REQUEST (F	ROUNDE	D)					22,000	
EQUIPMENT FROM (THER	APPROPRIATIONS (NON-	ADD)				(56,300)	
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ct a six h	ay flight s	imulator	
facility for F	'-35A	aircraft utilizing	g conventi	onal	design and	l constructi	on methods	
to accommodate	the	mission of the fac	cility. T	he fa	cility wil	l include a	reinforced	
concrete found	lation	and floor slab, s	structural	stee	l frame, s	standing sea	m metal	
roor and brick	exte	s communications	site imp	Ilre	suppression	on systems,	all	
facilities to	provi	de a complete and	useable f	acili	tv. Proje	associated	demolition	
of one buildin	g (15	6 SM). Facilities	s will be	desig	ned as per	manent cons	struction in	
accordance wit	h the	DoD Unified Facil	lities Cri	teria	(UFC) 1-2	200-01, Gene	eral	
Building Requi	remen	ts and UFC 1-200-0	02, High P	erfor	mance and	Sustainable	Building	
Requirements.	This	project will comp	ply with D	oD an	titerroris	m/force pro	tection	
requirements p	er UF	C 4-101-01.						
Air Conditioni	ng:	164 Tons						
11. Requiremen	t: 62	76 SM Adequates	: 3251 SM	Su	bstandard	0 SM		
PROJECT: F-35	A Fli	ght Simulator Faci	ility (New	Miss	ion).			
REQUIREMENT:	Const	ruct a six bay F-3	35A flight	simu	lator faci	lity on RAF	,	
Lakenheath. Th	is fa	cility will suppor	rt the two	new	F-35A squa	drons that	will be	
arriving on RA	F Lak	enheath starting	in 1st Qua	rter	FY22. Faci	lity will i	nclude	
space for 6 ai	rcraf	t flight simulator	r bays, ad	minis	tration, 1	ecords, cla	ssrooms,	
flight simulat	rooms or tr	aining.	er room, a	ua st	orage spac	e for F-35A	ι ριτοτ	

Page No.

1. COMPONENT		FY 2018 MILIT	ГА	2. DATE			
AIR FORCE		(computer generated)					
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE	:		
RAF LAKENHEATH F-35A FLIGHT SIMUL				ULATOR FACILIT	ſY		
RAF LAKENHEATH SITE # 1							
UNITED KINGDOM							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)	
27142		171-212	2 2470/MSET153501 22,000				
CURRENT SITUATION: 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.

<u>IMPACT IF NOT PROVIDED</u>: 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.

<u>ADDITIONAL:</u> 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

FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072

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L. COMPONENT	FY 201	8 MILITARY C	ONSTRUCTION Per generated)	ROJECT	DATA	2. DATE
		(CC	4 550		NT 1 2	
S. INSTALLATIO	JN AND LOCATION	4	4. PROC	ECT TI	LTRI MOD BY C.	TT T M 37
AF LAKENHEAT	1 H SITE # 1		F-35A I	LIGHT	SIMULATOR FAC.	LPTLA
JNITED KINGDO	M.					
5. PROGRAM EL	EMENT 6. CA	TEGORY CODE	7. PROJECT N	UMBER	8. PROJECT CO	DST (\$000)
27142		171-212	2470/MSET1	53501	22,	,000
12. SUPPLEMEN	TAL DATA:					
a. Estimate	d Design Data:					
(1) Projec	t to be accomp	lished by de	sign-build p	cocedure	es	
(2) Basis	:					
(a) St (b) Wh	andard or Defin ere Design Was	nitive Design Most Recenti	n - Ly Used -			NO
(3) All O	ther Design Cos	sts				880
(4) Const	ruction Contrac	t Award				18 FEB
(5) Const	ruction Start					18 MAR
(6) Const	ruction Complet	ion				20 JUN
(7) Energy	y Study/Life-Cy	cle analysis	was/will be	perform	med	YES
EQUIPMENT	NOMENCLATURE	PROC	URING APPRC	APPRO OR RE	PRIATED QUESTED	COST (\$000)
FLIGHT SI	MULATOR EQUIPM	ENT	3010		17	40,000
FURNISHIN	IGS		3400		19	200
COMMUNICA	TIONS SUPPORT		3400		19	100
FLIGHT SI	MULATOR EQUIPM	ENT	3010		18	16,000

1. COMPONENT	FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE						
AIR FORCE		(c	omputer gen	erate	d)		
3. INSTALLATION	, SITE	E AND LOCATION		4. PROJECT TITLE			
RAF LAKENHEATH				F-35A	A FIELD TRAI	NING DETACHM	ENT FACILITY
RAF LAKENHEATH	SITE ‡	‡ 1					
UNITED KINGDOM		1				1	
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID				PROJE	CT NUMBER	8. PROJECT	COST (\$000)
27142		171-618	2470/	MSET1	.53506	12	2,492
		9. C	OST ESTIMA	TES			
		TTEM		TT /M	OUNTTEN	UNIT	COST
				0/14	QUANIIII		(\$000)
PRIMARY FACILIT	IES						10,414
FTD FACILITY					2,471	4,132	(10,210)
SUSTAINABLE DE	SIGN A	ND ENERGY MEASURES		LS			(204)
SUPPORTING FACE	LITIES						777
UTTLITTES				LS			(198)
STTE IMPROVEME	NTS			LS			(33)
PAVEMENTS				LS			(46)
COMMUNICATION	SUPPOR	T		LS			(500)
SUBTOTAL							11,191
CONTINGENCY (5.0%)							560
TOTAL CONTRACT COST							11.751
$\begin{array}{c} 101\text{AL CONTRACT COST}\\ \text{CIDERUTTON INCREPTION AND OVERUPAD} \qquad (2.5\%) \end{array}$							294
DESIGN/BILLD - DESIGN COST $(4.0\% \text{ OF SUBTOTAL})$							448
TOTAL REQUEST							12,492
TOTAL REQUEST (1	ROUNDE	D)					12,492
EQUIPMENT FROM	OTHER	APPROPRIATIONS (NON-	ADD)				(3,030)
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ict an F-35	A Field Tra	aining
Detachment (FI	ID) Fa	cility with a comm	nunication	s nod	le utilizir	ng conventio	onal design
and constructi	on me	thods to accommoda	ate the mi	ssion	of the fa	cility. Th	ne facility
will include a	reir	forced concrete fo	oundation,	conc	rete floor	slab, stru	ictural
fire suppressi	standi	ng seam metal room	e and bric	k ext	erior. Pr	oject will	include
improvements,	and a	scems, all utility associated support	facilitie	s to	provide a	complete an	≠ nd useable
facility. Fac	iliti	es will be designed	ed as perm	anent	construct	ion in acco	ordance with
the DoD Unifie	ed Fac	cilities Criteria	(UFC) 1-20	0-01,	General E	Building Rec	quirements
and UFC 1-200-	-02, H	ligh Performance an	nd Sustain	able	Building R	Requirements	s. This
project will c	comply	v with DoD antiter	rorism/for	ce pr	otection r	requirements	3 per UFC 4-
loi-oi.		14 mana					
Air Conditioni	.ng:	14 TONS	1756 GM	C 11	betandard	0 91	
DOTECT. P 3	IC. 12	1d maining Dates	. 1750 BM		(Nove Miggi		
PROJECT: F-35	A Fle	and Training Detach	iment faci	11ty 11-	(New Missi	.on)	
program and mo	const ock-ur	s. Facility will i	include: s	ix El	ectronic M	Tor the F-3	sture (EML)
Classrooms, ar	n Egre	ess Systems Mainter	nance Trai:	ner (ESMT), an	Outer Mold	Line (OML)
Training Lab,	an F-	35A Off-Equipment	Training	Engin	ne/Mock-up,	an Aerospa	ace Ground
Equipment (AGE	I) Tra	aining area, and ad	dmin space	for	instructor	s.	
CURRENT SITUAT	<u>'ION:</u> both	The current facil h F-15C/E and F-352	lity used A maintena	for F nce t	TD does no raining. C	ot have enou Currently, t	ugh capacity the facility
DD FORM 1391,	DEC 9	9 Previou	s edition	s are	obsolete.		Page No.

	1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA						
	AIR FORCE		(computer generated)						
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE									
RAF LAKENHEATH F-35A FIELD TRAINING DETACHMENT FACILITY					T FACILITY				
RAF LAKENHEATH SITE # 1									
	UNITED KINGDOM								
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID,			7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)			
	27142	27142 171-618 2470			/MSET153506	12,4	92		

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.

<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.

ADDITIONAL: 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

FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072

CTION PROJECT Merated) 4. PROJECT TIT F-35A FIELD TH FACILITY COJECT NUMBER D/MSET153506	DATA FLE RAINING DETACH 8. PROJECT CO 12,49	2. DATE MENT ST (\$000) 2									
4. PROJECT TI F-35A FIELD TH FACILITY OJECT NUMBER D/MSET153506	FLE RAINING DETACH 8. PROJECT CO 12,49	IMENT ST (\$000) 2									
F-35A FIELD TH FACILITY COJECT NUMBER D/MSET153506	RAINING DETACH 8. PROJECT CO 12,49	IMENT ST (\$000) 2									
FACILITY COJECT NUMBER D/MSET153506	8. PROJECT CO 12,49	ST (\$000) 2									
OJECT NUMBER D/MSET153506 Duild procedure	8. PROJECT CO 12,49	ST (\$000) 2									
OJECT NUMBER	8. PROJECT CO 12,49	ST (\$000) 2									
D/MSET153506	12,49	2									
ouild procedure											
ouild procedure											
ouild procedure	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 - 											
		480									
		18 FEB									
		18 MAR									
(6) Construction Completion 19											
(7) Energy Study/Life-Cycle analysis was/will be performed Y											
rovided from o FISCA APPRC APPRO OR RE	ther appropri- L YEAR PRIATED QUESTED	COST (\$000)									
) 2	019	530									
) 2	019	1,500									
) 2	019	1,000									
	d - will be perform rovided from o APPRC APPRO OR RE) 2) 2) 2	d - will be performed rovided from other appropria APPRC APPROPRIATED OR REQUESTED) 2019) 2019) 2019									

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DAT	ГА	2. DATE		
AIR FORCE	IR FORCE (computer generated)								
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	1	·		
RAF LAKENHEATH				F-35A	INFRASTRUC	TURE			
RAF LAKENHEATH	SITE #	: 1							
5. PROGRAM ELEM	5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJE						COST (\$000)		
27142	27142 812-225 2470/MSET153509 6,700								
		9. C	OST ESTIMA	TES					
		ITEM		U/M	QUANTITY	UNIT	(\$000)		
PRIMARY FACTLET	TES						3.274		
FLECTRICAL INF	 PASTRII	CTURE (812-225)		т.м	1.300	835	(1 086)		
SANITARY SEWED (832-266)				Т.М	2,400	212	(1,088)		
STORM SEWER (8)	71-183)		LM	700	529	(370)		
ROADS (851-147)	,		SM	2,100	409	(860)		
PARKING LOTS (852-20	1)		SM	1,500	300	(450)		
SUPPORTING FACI	LITIES					l l	2 718		
	MTC			T.G			(2 250)		
SITE IMPROVEMENTS				_ db	945	283	(2,250)		
ENVIRONMENTAL REMEDIATION				LS	545	205	(200)		
						-	(<u>100</u>)		
SUBTOTAL							5,992		
CONTINGENCY	(5.0%))				-	300		
TOTAL CONTRACT (COST		(0.50)				6,291		
SUPERVISION, IN	SPECTION	ON AND OVERHEAD	(2.5%)				157		
TOTAL PROMEST	DESIGN	COST (4.0% OF 5	(UBTOTAL)			-	<u> </u>		
TOTAL REQUEST		וח					6,000		
10 Dependenti	KOUNDE.						6,700		
infrastructure	on or . san	itary and storm se	evers inco	nstru rpora	ting all n	ecessary pu	mps		
stations, park	ing a	reas and an access	s road to	the F	-35A beddo	wn site at	RAF		
Lakenheath. Si	.te im	provements, remedi	iation of	areas	of Specia	l Scientifi	c Interest		
(SSSI) and all	othe	r supporting work	necessary	to m	ake comple	te and usea	ble		
facilities is	inclu	ded. This project	will demo	lish	six facili	ties (945 S	M).		
Facilities wil	l be	designed as permar	nent const	ructi	on in acco	rdance with	the DoD		
1-200-02. High	.ties Perf	ormance and Sustai	inable Bui	nerai Iding	Building Requireme	Requirement	s and UFC		
comply with Do	D Ant	iterrorism/force p	protection	requ	irements p	er UFC 4-01	0-01.		
11. Requirement	nt: 13	00 LM Adequate:	: 0 LM	Subst	andard: 0	LM			
PROJECT: F-35	A Inf	rastructure (New M	(ission)						
REQUIREMENT:	This	project will insta	all a new ;	power	feed and	substation,	as well as		
upgrade the po	table	and waste water s	systems to	the	F-35A comp	lex. The pr	oject will		
install a dist	ribut	ion substation at	the termi	natio	n of the n	ew power fe	ed onto the		
base. A power	line	will be run from t	the new di	strib	ution subs	tation to t	he F-35A		
complex. The p	low a	e water, sanitary	in the E-	a sto 35% a	orm water s	ystems will have proper	De Water		
pressure and d	lraina	ge.	-m cne r-		CMPICA CO	TALC PLOPEL			
CURRENT SITUAT	ION:	The area of RAF I	Lakenheath	wher	e the F-35	A complex i	s planned		
to be construc	ted c	urrently has seven	al small	facil	ities. The	new facili	ties are		
DD EODX 1301		0 Dragovi ov			ah malata		Dama Na		

Page No.

1. COMPONENT FY 20: AIR FORCE

FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)

 3. INSTALLATION, SITE AND LOCATION
 4. PROJECT TITLE

 RAF LAKENHEATH
 F-35A INFRASTRUCTURE

 RAF LAKENHEATH SITE # 1
 UNITED KINGDOM

 5. PROGRAM ELEMENT
 6. CATEGORY CODE

 27142
 812-225

 2470/MSET153509
 6,700

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.

<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.

<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.

FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072

1						0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AIR FORCE		FY 2018 MILITARY C	onstru er gei	JCTION PROJECT	DATA	2. DATE
3. INSTALLATI	ON AND L	OCATION	- <u>j</u> -	4. PROJECT TI	TLE	
RAF LAKENHEAT	н			F-35A INFRAST	RUCTURE	
RAF LAKENHEAT UNITED KINGDO	H SITE # M	1				
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CC	ST (\$000)
27142		812-225	247	0/MSET153509	6,	700
12. SUPPLEMEN	TAL DAT	A:				
a. Estimate	d Design	n Data:				
(1) Proje	ct to be	accomplished by de	sign-1	build procedur	es	
(2) Basis	:	Definition Desim	_			
(a) St (b) Wh	ere Des:	ign Was Most Recent:	ly Use	ed -		NO
(3) All O	ther Des	ign Costs				268
(4) Const	ruction	Contract Award				18 AUG
(5) Const	ruction	Start			18 SEP	
(6) Const	ruction	Completion				20 JUN
(7) Energ	y Study/	Life-Cycle analysis	was/	will be perfor	med	YES

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DAT	TA	2. DATE
AIR FORCE (computer generated)							
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE		·
RAF LAKENHEATH				F-35A	A 6-BAY HANG	AR	
RAF LAKENHEATH	SITE #	1					
UNITED KINGDOM							
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID				PROJE	CT NUMBER	8. PROJECT	COST (\$000)
27142 211-177 247				MSET1	.53513	2	24,000
		9. C	OST ESTIMA	TES	, , , , , , , , , , , , , , , , , , , ,		
		ITEM		U/M	QUANTITY	UNIT	COST
							(\$000)
PRIMARY FACILIT	IES						19,914
SMALL AIRCRAFT	SMALL AIRCRAFT MAINTENANCE DOCK				4,288	4,553	(19,523)
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(390)
SUPPORTING FACIN	LITIES						1,465
UTILITIES				LS			(591)
SITE IMPROVEME	NTS			LS		ĺ	(41)
PAVEMENTS				LS			(118)
COMMUNICATIONS	SUPPO	RT		LS			(500)
DEMOLITION					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 ()	ROUNDE	D)					24,000
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				(1,280)
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ict a 6-bay	hangar fac	ility
utilizing conv	rentio	nal design and cor	nstruction	meth	ods to acc	commodate th	e mission
of the facilit	у. Т	he facility will i	include re	infor	ced concre	te foundati	on,
concrete slab,	stru	ctural steel Irame	e, standin vo gentry	g sea crane	m metai ro s electri	or and exte	rior. The
improvements,	lands	caping, pavement,	parking,	utili	ties, fire	e detection/	protection,
and all necess	ary s	upporting faciliti	les for a	compl	ete and us	able facili	ty.
Demolition of	two f	acilities is inclu	uded (602	SM).	Facilitie	s will be d	esigned as
permanent cons	struct	ion in accordance	with the	DoD U	nified Fac	ilities Cri	teria (UFC)
1-200-01, Gene	eral B	uilding Requiremen	nts and UF	C 1-2	200-02, Hig	h Performan	ce and
Antiterrorism/	force	protection requir	rements pe	ct wi r IIFC	.11 Comply	with DOD	
Air Conditioni	ng.	0 Tons	Concillo Po	- 010			
11. Requirement	nt: 20	569 SM Adequate	e: 10302 S	м	Substandar	d: 0 SM	
PROJECT: Cons	struct	a 6-bay F-35 hand	gar on RAF	Lake	nheath (Ne	w Mission)	
REQUIREMENT:	Const	ruct a 6-bay hanga	ar on RAF	Laken	heath to h	ouse one of	the new F-
35A squadrons	comin	g to RAF Lakenheat	h startin	g in	first quar	ter FY22.	Hangar will
include 6 hang	jar ba	ys, Low Observable	e (LO) mat	erial	maintenan	nce, engine	
maintenance, g	jun ma	intenance, and col	llateral s	torag	e. Each h	angar bay w	ill supply
aircraft cooli	ng ai	r, aircraft and AC	HE power,	and a	LAN drop.		
CURRENT SITUAT	ION:	The F-15Cs that a	are to be	repla	ced by one	e of the F-3	5 squadrons
DD FORM 1391,	DEC 9	9 Previou	s edition	s are	obsolete.		Page No.

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	JCTION PROJECT DAT	Γ Α	2. DATE	
AIR FORCE		(c	omputer gen	nerated)			
3. INSTALLATION,	SITE	AND LOCATION		4. PROJECT TITLE			
RAF LAKENHEATH				F-35A 6-BAY HANGAR			
RAF LAKENHEATH S	ITE #	1					
UNITED KINGDOM							
5. PROGRAM ELEME	NT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT COST (\$000)		
27142		211-177	2470	/MSET153513	24,000		
are currently m	aint	ained out of Prote	ective Air	craft Shelters	(PASs) sprea	d out	
around a quarte	er of	the airfield. The	nis is not	a workable mai	ntenance sol	ution and	
a hangar needs	to b	e constructed for	each of t	he squadrons as	the site sp	ecific	
activation plan	(SS.	AP) determined the	e F-35s un	ique maintenanc	e CONOPS req	uirements	
cannot be met w	vithi:	n the PASs. There	e is not a	suitable facil	ity availabl	e for F-35	
engine, gun, an	d LO	maintenance.					

<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.

<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

FOREIGN CURRENCY: FCF Budget Rate Used: POUND .8072

1. COMPONENT	FY 2018 MILITARY C	ONSTRUCTION P	ROJECT I	DATA	2. DATE
3. INSTALLATION AND	LOCATION	4. PROJ	ECT TIT.		
RAF LAKENHEATH	# 1	F-35A 6	-BAY HA	NGAR	
UNITED KINGDOM	π ⊥				
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT N	UMBER	3. PROJECT CC)ST (\$000)
27142	211-177	2470/MSET15	53513	24,	,000
12. SUPPLEMENTAL DAT	A:				
a. Estimated Desig	n Data:				
(1) Project to be	e accomplished by de	sign-build pr	ocedure	S	
(2) Basis:					
(a) Standard (b) Where Des	or Definitive Design ign Was Most Recent	n - ly Used -			NO
(3) All Other Dea	sign 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	perform	ed	YES
EQUIPMENT NOMENC	PROC	CURING APPRC	APPROP OR REQ	RIATED UESTED	COST (\$000)
FURNITURE, FIXTU	DEG NE BOUTE			0	
•	RES AND EQUIP	3400	1	.9	530
COMMUNICATIONS	KES AND EQUIP	3400 3080	1	.9	530 750

1. COMPONENT		FY 2018 MILIT	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE	
AIR FORCE	(computer generated)							
3. INSTALLATION	, SITE	E AND LOCATION		4. PF	ROJECT TITLE	2		
RAF LAKENHEATH				F-35A	SQUADRON C	PERATIONS AN	ID AMU	
RAF LAKENHEATH SITE # 1								
UNITED KINGDOM		1	1					
5. PROGRAM ELEM	LEMENT 6. CATEGORY CODE 7. RPSUID/				CT NUMBER	8. PROJECT	OJECT COST (\$000)	
27142	27142 141-753 2470			/MSET153514			41,000	
	9. COST ESTIMATES							
		тлем		TT / M	OTTANETEN	UNIT	COST	
		11EM		07M	QUANTITY		(\$000)	
PRIMARY FACILIT	IES						34,931	
SQUADRON OPERA	TIONS	(141-753)		SM	4,352	4,093	(17,813)	
AIRCRAFT MAINT	ENANCE	UNIT (211-154)		SM	3,663	4,200	(15,385)	
WEAPONS AND RE	LEASE	SYSTEM STORAGE (215-	-552)	SM	465	2,255	(1,049)	
SUSTAINABILITY AND ENERGY MEASURES			LS			(685)		
SUPPORTING FACILITIES						1,965		
UTILITIES			LS			(601)		
SITE IMPROVEME	NTS			LS			(41)	
PAVEMENTS				LS			(106)	
DEMOLITION				SM	2,011	357	(717)	
COMMUNICATIONS SUPPORT							(500)	
SUBTOTAL							36,896	
CONTINGENCY (5.0%)							1,845	
TOTAL CONTRACT COST							38,741	
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)							969	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				1,476	
TOTAL REQUEST							41,185	
TOTAL REQUEST (1	ROUNDE	D)					41,000	
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				(2,648)	
10. Descripti operations and storage. The floor slab, st will include f site improvement useable facili	on of Airc facil ructu ire s ents,	Proposed Construct raft Maintenance C ity will include a ural steel frame, s suppression systems and associated sup Project shall demo	ction: Co Unit (AMU) a reinforc standing s s, all uti pport faci olish two	nstru with ed cc eam m litie litie build	act a combined weapons a marrete found metal roof es, pavement is to provi	ined squadre and release undation, co and exterio its, communi- ide a comple SM), Fac	on systems oncrete or. Project ications, ete and ilities 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: 16320 SM Adequate: 7840 SM Substandard: 10169 SM PROJECT: F-35A Squadron Operations and AMU (New Mission) REQUIREMENT: 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

Previous editions are obsolete.

DD FORM 1391, DEC 99

requirements.

Page No.

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UNTTED KINGDOM	-			
		I _ ,		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT COST (\$000)
27142	141-753	2470,	/MSET153514	41,000
will include all AM	U functions, low o	observable	personnel spac	e, and weapons &
release systems sto	rage. The weapons	and relea	se system stora	ge area requires a
gantry crane for lo	ading and unloading	ng weapon	system crates.	
CURRENT SITUATION:	Currently there a	are two co	mbined squadron	operations and AMU
facilities on RAF L	akenheath. One of	these ser	ves the 492nd a	nd 494th Fighter
Squadrons for F-15E	squadron operatio	ons and ma	intenance. The	other combined
squadron operations	and AMU facility	is curren	tly being used	by the 493rd Fighter
Squadron for 18 PAA	F-15Cs. This fac:	ility will	be vacated whe	n the F-15Cs leave RAF
Lakenheath however,	this facility wow	uld requir	e a 749 SM addi	tion to accommodate a
24 PAA F-35 squadro	n. A large portion	n of this	additional spac	e would be required to
be constructed to S	pecial Access Proc	gram Facil	ity (SAP-F) cri	teria; requiring
substantial renovat	ion. Additionally	, the exis	ting squadron o	perations/AMU facility
is not large enough	to accept instal	lation of	the F-35 Autono	mic Logistics
Information System	(ALIS). Due the o	cost to mo	dify existing f	acilities to
accommodate F-35A u	se, both squadrons	s coming t	o RAF Lakenheat	h will require new
squadron operations	and AMU facilitie	es. There	is not current	ly a space to store F-
35 weapons release	systems on RAF Lal	kenheath.		
IMPACT IF NOT PROVI	<u>DED:</u> There is not	t currentl	y enough space	on RAF Lakenheath to
operate squadron op	erations and AMUs	for four	24 PAA squadron	s. Without this
project there will	not be any availab	ole space	for the two new	F-35A squadrons
arriving in FY21.				
ADDITIONAL: This p	roject meets the o	criteria/s	cope in Air For	ce Manual 32-1084
"Facility Requireme	nts." An analysis	of reason	able alternativ	es was accomplished
comparing status qu	o, renovation and	new const	ruction. This	analysis indicated
that new constructi	on is the most cos	st effecti	ve means to mee	t mission
requirements. This	project is not wi	ithin an e	stablished NATO	capability package
for common funding,	nor is it expecte	ed to beco	me eligible. C	urrent NATO policy
indicates that this	item will continu	le to be a	user responsib	ility. It should be
noted that numerous	facilities on RAN	F Lakenhea	th with categor	y codes 141-753 and
211-154 are schedul	ed for demolition	by other	projects. 48th	Fighter Wing Base
Civil Engineer: 00	44-1638-522100.			
Squadron Operations	: 4352 SM = 46,845	5 SF; AMU:	3663 SM = 39,4	28 SF;
Weapons and Release	System Storage: 4	465 SM = 5	005 SF.	
FOREIGN CURRENCY:	FCF Budget Rate Us	sed: POUND	.8072	
JOINT USE CERTIFICA	TION: This facilit	ty can be	used by other c	components on an "as
available" basis; h	owever, the scope	of the pr	oject is based	on Air Force

3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH

1. COMPONENT

AIR FORCE

RAF LAKENHEATH		F-35A SQUADRON C	PERATIONS AND AMU
RAF LAKENHEATH SITE #	1		
UNITED KINGDOM			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27142	141-753	2470/MSET153514	41,000

4. PROJECT TITLE

FY 2018 MILITARY CONSTRUCTION PROJECT DATA (computer generated)

							1
1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA						2. DATE	
AIR FORCE (computer generated)							
3. INSTALLATIO	ON AND L	OCATION		4. P	ROJECT TI	TLE	
RAF LAKENHEAT	H 4 ctre #	L 1		F-35.	A SQUADRO	N OPERATIONS A	AND AMU
UNITED KINGDO	M	· -					
5. PROGRAM EL	EMENT	6. CATEGORY (CODE 7.	PROJEC	I NUMBER	8. PROJECT CC)ST (\$000)
27142		141-753	:	2470/MSE	T153514	41,	,000
12. SUPPLEMEN	TAL DAT	A:					
a. Estimate	d Design	n Data:					
(1) Projec	t to be	accomplished	by desig	gn-build	procedur	es	
(2) Basis (a) St (b) Wh	andard (are Des:	or Definitive I ign Was Most Re	esign - cently	Used -			NO
(3) All Ot	ther Des	ign Costs	-				1,640
(4) Constr	ruction	Contract Award					18 FEB
(5) Constr	ruction	Start					18 MAR
(6) Constr	ruction	Completion					20 JUN
(7) Energy	y Study/	Life-Cycle ana	lysis wa	as/will	be perfor	med	YES
b. Equipment associated with this project provided from other appropriations:							
EQUIPMENT	NOMENCI	LATURE	PROCUR	ING APPR	FISC C APPRC OR RE	AL YEAR DPRIATED QUESTED	COST (\$000)
COMMUNICA	TIONS		3	3080		20	494
FURNITURE	, FIXTU	RES AND EQUIP	3	3400		20	2,154

1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE					
AIR FORCE	(computer generated)						
3. INSTALLATION, SITE AND LOCATION				4. PROJECT TITLE			
WORLDWIDE UNSPE	WORLDWIDE UNSPECIFIED				CIFIED MIN	OR MILITARY CC	NSTRUCTION
VARIOUS LOCATIO	NS						
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/P				ROJECT	NUMBER	8. PROJECT COST (\$000)	
91211	91211 962-000 /PAY2			PAYZ180003 31,400			400
9. COST ESTIM				TES	1	1	
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILIT	ES						31,400
MILCON MINOR CO	ONSTRU	JCTION		LS			(31,400)
SUPPORTING FACII	ITIES						0
SUBTOTAL						_	31,400
TOTAL CONTRACT (COST					_	31,400
TOTAL REQUEST							31,400
TOTAL REQUEST (F	ROUNDE	D)					31,400
10. Descripti	on of	Proposed Constru	action:				
11. Requiremen	t:	Adequate:	Substandar	:d			
PROJECT: As r	equir	red.					
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						ans of	
accomplishing	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.							

(ITE AND LOCATION IED 6. CATEGORY CODE 961-000 9. ITEM SN (91211) SN (12325) ES DED)	computer gen 7. RPSUID/PH /PAN COST ESTIMA	4. PF PLANN ROJECT Z1800 TES U/M LS LS	d) ROJECT TITL NING AND DES NUMBER 02 QUANTITY	E SIGN 8. PROJECT C 97,8 UNIT	COST (\$000) 352 COST (\$000) 97,452 (97,452) (400)
ITE AND LOCATION IED 6. CATEGORY CODE 961-000 9. ITEM SN (91211) SN (12325) ES DED)	7. RPSUID/PP	4. PF PLANN ROJECT Z1800 TES U/M LS LS	ROJECT TITL NING AND DES C NUMBER 02 QUANTITY	E SIGN 8. PROJECT C 97,5 UNIT	COST (\$000) 352 COST (\$000) 97,452 (97,452) (400)
6. CATEGORY CODE 961-000 9. ITEM SN (91211) SN (12325) ES	7. RPSUID/PF /PAN COST ESTIMA	PLANN ROJECT Z21800 TES U/M LS LS	2 NUMBER 02 QUANTITY	SIGN 8. PROJECT C 97,8 UNIT	COST (\$000) 352 COST (\$000) 97,452 (97,452) (400)
6. CATEGORY CODE 961-000 9. ITEM SN (91211) SN (12325) ES	7. RPSUID/PP	COJECT ZZ1800 TES U/M LS LS	Y NUMBER 02 QUANTITY	8. PROJECT C 97,8 UNIT	OST (\$000) 352 COST (\$000) 97,452 (97,452) (90)
6. CATEGORY CODE 961-000 9. ITEM SN (91211) SN (12325) ES DED)	7. RPSUID/PF	ROJECT ZI800 TES U/M LS LS	2 NUMBER 02 QUANTITY	8. PROJECT C 97,8 UNIT	COST (\$000) 352 COST (\$000) 97,452 (97,452) (400)
6. CATEGORY CODE 961-000 9. ITEM SN (91211) SN (12325) ES	7. RPSUID/PP	COJECT ZI800 TES U/M LS LS	Y NUMBER 02 QUANTITY	8. PROJECT C 97,8 UNIT	OST (\$000) 352 COST (\$000) 97,452 (97,452) (97,452) (400)
961-000 9. ITEM SN (91211) SN (12325) ES DED)	/PAY	TES U/M LS LS	02 QUANTITY	97,	COST (\$000) 97,452 (97,452) (400)
9. ITEM SN (91211) SN (12325) ES DED)	COST ESTIMA	U/M LS LS	QUANTITY	UNIT	COST (\$000) 97,452 (97,452) (400)
ITEM EN (91211) EN (12325) ES DED)		U/M LS LS	QUANTITY	UNIT	COST (\$000) 97,452 (97,452) (400)
SN (91211) SN (12325) ES DED)		LS LS			97,452 (97,452) (400)
ES DED)					
DED)					0
IDED)					97,852
DED)				—	97,852
DED)					97,852
					97,852
Adequate: ired. se planning and des FY19 Military Cons Construction Progr ical projects with tion programs. The sign and constructi ts and for design o developing the Tri- ia.	Substandar sign funds a struction Pr ram, and acc long lead-t ese funds ma on manageme of classifie Services Co	rd: compl times ay be ent of ed and ost E	equired to m, initiat ish planni to be ind used for f projects d special stimating	c complete the ce design of ing and desig cluded in sub value engine s that are fu programs. T Guide and Un	e design of facilities in in for major sequent ering and for inded by The funds may iffied
i	a.	a.	a.	a.	a.



Department of the Air Force

Overseas Contingency Operations Military Construction Program

Fiscal Year (FY) 2018 Request

Justification Data Submitted to Congress May 2017
DEPARTMENT OF THE AIR FORCE FISCAL YEAR 2018 OVERSEAS CONTINGENCY OPERATIONS REQUEST TABLE OF CONTENTS

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Military Construction Projects	221
Planning and Design	

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

	Authorization Ap Request (\$000s)	propriation Request (\$000s)
Military Construction	(43000)	<u>(\$0005)</u>
Major Construction Planning and Design (10 USC § 2807)	165,700	165,700 41,500
Total Military Construction	165,700	207,200

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

			AUTHORIZATION	APPROPRIATION
COUNTRY	INSTALLATION	PROJECT	REQUEST	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

1. COMPONENT		FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE						
AIR FORCE		(computer generated)						
3. INSTALLATION	, SIT	E AND LOCATION		4. PROJECT TITLE				
MUWAFFAG SALTI	AIR B	ASE (MSAB)		OIR:	MSAB DEVELO	OPMENT		
JORDAN								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT	COST (\$000)	
27576		113-321	/AS	/F1831	.00	1	43,000	
		9.	COST ESTIMA	TES				
		ТТЕМ		∏/м	OUANTITY	UNIT	COST	
		11111			2012(1111		(\$000)	
PRIMARY FACILIT	EES						82,939	
AIRFIELD PAVEM	ENTS	(113-321)		SM	222,700	237	(52,735)	
ISR SHELTERS (141-18	31)		LS			(10,000)	
CAS REVETMENTS	/SUNSI	HADES (211-194)		LS			(11,168)	
DORMITORY (721	-312)			SM	4,850	1,650	(8,003)	
CARGO MARSHALL	ING YA	ARD FACILITY (141-78	32)	SM	470	2,200	(1,034)	
SUPPORTING FACIL	LITIES	5					45,093	
HIGH MAST LIGH	TING			LS			(1,500)	
PAVEMENTS (ROA	DS, PZ	ARKING & YARD)		LS			(4,786)	
ENTRY CONTROL	POINTS	3		LS			(2,340)	
WATER DISTRIBUT	TION S	SYSTEM		LS			(11,356)	
WASTEWATER COL	LECTIO	ON SYSTEM		LS			(3,032)	
ELECTRICAL DIS	TRIBU	TION SYSTEM		LS			(6,241)	
COMMUNICATIONS	DUCTI	BANK		LS			(1,398)	
SITE IMPROVEME	NTS &	STORM DRAINAGE		LS			(14,441)	
SUBTOTAL							128,033	
CONTINGENCY	(5	5.0%)					6,402	
TOTAL CONTRACT (COST						134,434	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				8,738	
TOTAL REQUEST							143,172	
TOTAL REQUEST (ROUNDE	D)					143,000	
10. Descripti	on of	Proposed Constru	ction: Co	nstru	ct 222,700	SM of medi	um-load	

10. Description of Proposed Construction: Construct 222,700 SM of medium-foad 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	1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE ALE FORCE (computer generated)						
2 TNGTALLATION	CITE AND LOCATION						
MIWAFFAG SALTI AT	IR BASE (MSAB)		OTP. MGAR DEVEL	ים סאדיאיזי			
			JIN. MORD DEVEL				
JORDAN							
5. PROGRAM ELEMEN	T 6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CO	OST (\$000)		
27576	113-321	/AS	VF183100	143	3,000		
requirement for infrastructure is communications p Support Area (LS is required. CURRENT SITUATION fighter/ISR open recovery operation personnel into a Additionally, su infrastructure a current LSA was personnel. This supporting four the population of are billeted und Additionally, the (EQSD) arcs from extreme life, he influx of person operations popul infrastructure a IMPACT IF NOT PI will face unacco aircraft parking Personnel will of safety arcs from large enough to ADDITIONAL: Al: measures will be development, des incorporated who installation phy included. Alter during project of and new construct requirement. As 803-717-7055. SM = 52,205 SF; JOINT USE CERTI: available" basis requirements.	associated marshalli includes electrical, plus a road network to SA) as well as the FI ON: Currently, MSAB cations and zero dedi- tions. The aprons are fordan as well as incomport facilities for are required to support designed as an exerce s site plus expansion to five times what to continues to grow. The der surge conditions he existing LSA reside a the current operation salth, and safety rise mel, and to provide lation, a new LSA to are required. ROVIDED: If this pro- eptable risk sustain g capacity as well as continue to be at exert a the current operation support the required l required physical se incorporated. Sust sign, and construction ere feasible. This pro- pysical security plan, frative methods of me development to include ction. New construct s a result, we plan to (Airfield Pavements) Cargo Yard Facility FICATION: This facil: s; however, the scoper-	ing yard and combined da that are realightline A: has extrema icated space e required of creased oper r the apron ort future real creased oper r the apron ort future real creased oper r the apron ort future real creased oper r the apron of future real in efforts u the space within in temporar des within real include sur- oject is no ing addition s insuffici treme risk ions. Addi d population security an tainable pr on of the p project has , and all p eeting this det the stat tion is the to seek a w : 222,700 : 470 SM = ity can be e of the pr	d facility for omestic/fire wa quired to suppor rea. Additiona ely limited ram e to support ca to support an i rations to counts (Flightline A missions projector or a contingent sing WRM equipm as originally i e site is overw ry facilities a Explosive Quant putting our mi eviate these ri acilities for a pporting facili t funded, the con nal forces due ent logistics of due to the LSA tionally, the con duanti-terroris inciples will h roject. Joint been coordinat hysical securit requirement ha us quo, renovat only feasible aiver to the econ SM = 2,397,121 4,381 SF). used by other co oject is based	airlift ops. airlift ops. ater system, a both the H ally, billetin ap space to su argo and person argo and person argo and person ater ISIL. area) do not a sted for MSAB i of up to 300 ment is current antended to su chelmed and po- and tents. atty-Distance litary person sks, to suppo- a contingency ties and concept of op- being within current LSA is som / force pro- be integrated use potentia i option to me- conomic analy SF; Dormitor; components on on Air Force	Utility sewer, and Life ng space upport onnel argo & exist and . The on tly upport and ersonnel Safety nnel at an ort the Jordan dequate erations. explosive s not otection into the l will be re ored /removal, et the sis. POC: y: 4,850 an "as		

AIR FORCE 3. INSTALLATI MUWAFFAG SALT		(comput						
3. INSTALLATI		(comput)	(computer generated)					
MUWAFFAG SALT	ON AND LOCATIO	DN		4. PROJECT	FITLE			
	I AIR BASE (MS	SAB)		OIR: MSAB D	EVELOPMENT			
JORDAN								
5. PROGRAM EL	EMENT 6. C	ATEGORY CODE	7. PROJ	ECT NUMBER	8. PROJECT C	OST (\$000)		
27576		113-321	/AS\	VF183100	143	,000		
L2. SUPPLEMEN	TAL DATA:							
a. Estimate	d Design Data	:						
(1) Statu	s:							
(a) Da	te Design Sta	rted			01	-NOV-16		
(b) Pa	rametric Cost	Estimates use	d to de	velop costs		YES		
* (c) Pe	rcent Complete	e as of 01 JAM	J 2017					
* (d) Da	te 35% Designe	ed						
(e) Da	te Design Com	plete			02	2-JAN-18		
(f) En	ergy Study/Li	fe-Cycle analy	vsis was	/will be per	formed	NO		
(a) - 1								
(2) Basis	:							
(a) St	andard or Def:	initive Desigr	1 -			NO		
(b) Wh	ere Design Wa	s Most Recentl	y Used	-				
(3) Total	Cost(c) = (a)	(a) + (b) or (c)	l) + (e)	•		(\$000)		
(3) IOCUI	roduction of P	lans and Speci	ficatio	• ng		(0000)		
(b) Al	1 Other Design	n Costs	.rrcucio.			0		
(C) TO	tal					0		
(d) Co	ntract					0		
(e) In	-house					0		
(4) Const	ruction Contra	act Award				18 JUN		
(5) Const	ruction Start					18 JUL		
(6) Const	ruction Comple	etion				20 JAN		
* Indicat which i cost an	es completion s comparable d d executabilid	of Project De to traditional ty.	finition 35% des	n with Param sign to ensu	etric Cost Es re valid scor	stimate De,		
b. Equipmen	t associated w	with this prog	ject pro	vided from c	other appropri	lations:		
				FISCA	L YEAR			
		PROCUR	ING	APPRO	PRIATED	COST		
EOUIPMENT NOM	ENCLATURE	APPROPRI	ATION	OR RE	QUESTED	(\$000)		
						(4000)		
	EOUTOVEN	3400	h		2019	705		
COMMUNICATIONS	P ROOILWENL	3400	,)		2019	145		
COMMUNICATIONS FURNISHINGS	3 EQUIPMENT	3400 3400) i		2019 2019	72 50		



1. COMPONENT			FY 20	18 MIL	TARY	CONSTR	UCTIO	N PRO	GRAM	2. DATE	(YYYMMDD)	0
3. INSTALLATION AND LOCA	TION				4. COM	MAND				5. AREA		ION
INCIRLIK AIR BASE					UNITED	STATES	AIR FO	RCES IN		COST		
6. PERSONNEL		(1)	PERMAN	ENT	EUROPE	STUDEN	ITS	(3)	SUPPOR	TED		
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	10	IAL
a. AS OF 30-Sep-1	. 6	104	976	941				10	183	55		2,269
b. END FY 2022		101	953	942				9	180	55		2,240
7. INVENTORY DATA (\$000)		2 4 2 7										
b. INVENTORY TOTAL AS	OF	30-Sep	-16									1,298,965
c. AUTHORIZATION NOT	YET IN INV	ENTOR	(36,666
d. AUTHORIZATION REQU	JESTED IN		ROGRAM	I (FY 201	<u>8)</u>							48,697
f. REMAINING DEFICIENC	Y			.019-202.	2)							130,200
g. GRAND TOTAL												1,514,528
8. PROJECTS REQUESTED IN	N THIS PR	OGRAM	(FY 2018	3) /					b C	TZO		
(1) CODE	(2) PR	OJECT T	ITLE			(3) SCOP	E	(\$0	00)	(1) START	(2) COMPLETE
721-312 Dormitory - 21	6 PN					Ì	8,208	SM	25,	997	04/17	05/18
730-839 OIR: Relocate	Base Mai	.n Acces	s Cont:	rol Poi	nt		18 604	SM	14,	600 100	06/17 N	04/17
072 245 OIR. Replace I	CITINCCCI	1 CHCC					10,001	1111	07	100		/ 11
								TOTAL	48,	697		
9. FUTURE PROJECTS IN NE	XT FOUR	PROGR	AM YEAF	RS (FY20	19 - FY20	022)						
					FU	JTURE PF	ROJECTS	S TOTAL		0		
R&M UNFUNDED REQUIREM	ENT (\$M)							TOTAL	9	.1		
10. MISSION OR MAJOR FUN	ICTIONS	2011	3 ·		m), .			2011				C 11
spectrum, world-class for talents of our men and t	orward og women.	peratin	g base	support	to exp	pedition	ary fo	rces wh	ile dev	eloping	the profess	sional
11. OUTSTANDING POLLUTI	ON AND S	SAFETY [DEFICIEN	ICIES (F	Y 2018-20	022)						
a. Air Pollution												
b. Water Pollution												
c. Occupational Safety ar	id Health											
d. Other Environmental												
				ουτ	STANDI	NG DEFIC		<u>S TO</u> TAL		0		

1. COMPONENT					2. DATE	
AIR FORCE	FY2018 MILITARY CONSTRUCTION PROJECT DATA					
3. INSTALLATION AND LOO INCIRLIK AIR BASE, TURKI	CATION EY	4. PROJECT 7 OIR: RELOC	TITLE ATE BAS	SE MAIN ACCES	S CONTROL PO	INT
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT	NUMBE	R	8. PROJECT C	COST (\$000)
27576	730-839		LJYC20	3002	14,600	
					·	
	9. CC	OST ESTIMATE	S			
	ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES						7,201
Gatehouse (730-839)			SM	40	5,285.84	(211)
ID Check Booths (730-83	,9)		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 Buildin	ng (730-839)		SM	47	6,297.32	(296)
Access Control Point (73	0-839)		LS			(4,295)
Visitor Control Center (7	30-832)		SM	84	4,173.28	(351)
Sustainability/Energy Me	easures		LS			(60)
SUPPORTING FACILITIES						5,382
Utilities			LS			(2,023)
Standby Generator 100 k	W		EA	1	54,749.23	(55)
Site Improvements			LS			(1,598)
Information Systems Infra	astructure		LS			(656)
Demolish Houses			EA	24	14,583.33	(350)
Demolish Perimeter Road	1		LS			(200)
Reconstruct Perimeter Ro	ad		LS			(500)
SUBTOTAL						12,583
Contingency (5%)						629
ESTIMATED CONTRACT CO	ST					13,212
SUPERVISION, INSPECTIO	N, and OVERHEAD (SIOH) (6.5%)					859
DESIGN/BUILD – DESIGN (COST (4% of Subtotal)					528
TOTAL REQUESTED						14,599
TOTAL REQUESTED (ROUN	DED)					14,600
EQUIPMENT FROM OTHER					841	
10. Description of Propos	ed Construction:	I	L		L	
Construct an Entry Contro	ا Facility (ECF) at Incirlik Air Ba	se, Turkey to	enhanc	e air base cont	rol and defens	e in light of
additional traffic requirem	dditional traffic requirements and a higher threat environment associated with Operation INHERENT RESOLVE (OIR).					

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		2. DATE					
	FY2018 MILITARY CON						
AIR FORCE							
3. INSTALLATION AND LOC	ATION	4. PROJECT TITLE					
INCIRLIK AIR BASE, TURKE	Y	OIR: RELOCATE BASE MAIN ACCESS CONTROL POINT					
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)				
27576	730-839	LJYC203002	14,600				

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 (EPAct05) 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
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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	EV2018 MILITARY CON	2. DATE				
AIR FORCE						
3. INSTALLATION AND LOO	CATION	4. PROJECT TITLE				
INCIRLIK AIR BASE, TURKI	EY	OIR: RELOCATE BASE MAIN ACCESS CONTROL POINT				
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)			
27576	730-839	LJYC203002	14,600			

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 RSMeans 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.

				2 DATE			
I. COMPONEN I	FY2018 MILITARY	T DATA	2. DATE				
AIR FORCE							
3. INSTALLATION AND LO	CATION	4. PROJECT TITLE	4. PROJECT TITLE				
INCIRLIK AIR BASE, TURK	EY	OIR: RELOCATE BASE	E MAIN ACCESS (CONTROL POINT			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER		8. PROJECT COST (\$000)			
27576	730-839	LJYC2030	002	14,600			
12. SUPPLEMENTAL DATA	I						
a. Estimated Design Da	ta:						
(1) Project to be acco	omplished by design-build	procedures					
(2) Basis:							
(a) Standard or De	efinitive Design -			No			
(b) Where Design	Was Most Recently Used						
	(4000)			÷			
(3) All other design co	osts (\$000)		2	\$000			
(4) DD Form 1391 Su	bmittal		16	DEC			
(5) Design Instruction	n and Predesign Funding		16	DEC			
(C) DD DED Architect	17						
(6) DB RFP Architect-	17	17 MAR – 17 MAY					
(7) DB RFP	17	17 JUN – 18 MAR					
(8) DB Solicitation			18	S APR – 18 JUL			
(9) DB Award			18				
			10				
(10) DB Construction	Start		18	SEP			
(11) Energy Study/Lif	e Cycle Analysis was/will b	e performed		No			
h Equipment associate	d with this project provide	d from other appropriatio	ns.				
		FISCAL	YEAR				
	PROCURING	APPRO	PRIATED	COST			
EQUIPMENT NOMENCLAT	TURE APPROPRIAT	ION OR REQ	UESTED	(\$000)			
COMMUNICATIONS FOUL	PMENT 3400	20 [,]	19	227			
FURNISHINGS	3400	20	19	429			
UPS	3080	203	9 185				

1. COMPONENT	EV2018 MILITARY CONSTRUCTION PROJECT DATA					
AIR FORCE	1 1 2010 WILLIAR I	DECT DATA				
3. INSTALLATION AND LOCATION 4. PROJECT T			TITLE			
INCIRLIK AIR BASE. TURK	EY	OIR: REPLA	ACE PERI	IMETER FENCE		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT	' NUMBE	R	8. PROJE	CT COST (\$000)
			11011122		0111012	
27576	872-245		LJYC	183004	8,100	
	9	. COST ESTIMAT	ES	r		
	ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES						6,851
Boundary Fence (872-245	,)		LM	18,604	276.10	(5,137)
Existing Fence Removal			LM	35,130	48.75	(1,714)
SUPPORTING FACILITIES						130
Storm Drainage			LS			(64)
Site Improvements			LS			(66)
SUBTOTAL						6.981
Contingency (5%)						349
ESTIMATED CONTRACT CO	ST					7,330
SUPERVISION, INSPECTIO	N, and OVERHEAD (SIOH) (6.59	%)				477
DESIGN/BUILD – DESIGN	COST (4% of Subtotal)					293
TOTAL REQUESTED						8,100
TOTAL REQUESTED (ROUN	DED)					8,100
10. Description of Propos	ed Construction:					
The Air Force requires a n	ew base perimeter fence in	order to safeg	uard Op	eration INHERE	NT RESOLVE	personnel and
reduce the risk to mission	accomplishment. Replace a	approximately	11.5 mil	les of base perir	neter fence v	vhich forms
the entire operational per	imeter boundary of Incirlik	Air Base, Turke	y. The f	fence will be Ty	pe A fence co	nsisting of
chain link, 2.17 m (7 ft) hig	gh fencing, surmounted by 3	3 strands of bai	bed wir	e, angled outw	ard at 45 deg	rees for a total
height of 2.4 m (8 ft) per l	JFC 4-022-03 and AFMAN 3	2-1084, includi	ng signa	ge. Perimeter	fencing cover	s areas of
irregular terrain and culve	rts, etc. Fence will utilize ex	isting concrete	base w	alls (approx 610) meters) as c	urrently
installed in portions of the	perimeter fence area. Bou	ndary fence wi	ll includ	e 7 vehicle gate	s, to all for m	aintenance
access to the fence line fro	om within the Air Base and t	, to allow clearir	ng of bru	ish and debris f	or security an	d guard tower
visibility. Demolish currer	nt degraded and deteriorate	ed perimeter fe	nces, all	lowing full acce	, ss to maintair	n and clear
around new fence line. T	he facility is intended to be	compatible wit	th applic	cable Departme	nt of Defense	e (DoD), Air
Force, and host-nation de	sign standards. In addition,	local materials	and co	nstruction tech	niques shall b	e used where
required and/or appropria	ate. Design and constructio	n efforts will be	e execut	ed in accordance	ce with the ho	ost-nation
agreements, including cor	struction and environment	al permits. The	e facilitv	will be designe	d as permane	ent
construction in accordance	e with DoD Unified Facilities	s Criteria (UFC)	1-202-0)1, Host Nation	Facilities in S	upport of
Military Operations. This	project will comply with Do	D antiterrorism	n require	ements per UFC	4-010-01.	

1. COMPONENT			2. DATE			
	FY2018 MILITARY CO	NSTRUCTION PROJECT DATA				
AIR FORCE						
3. INSTALLATION AND LOCATION		4. PROJECT TITLE				
INCIRLIK AIR BASE, TURKE	Y	OIR: REPLACE PERIMETER FENCE				
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)			
27576	872 245	L IV/0102004	9 100			
27370	872-245	LJYC183004 8,100				
11. REQ: 18,604 LM	ADQT: 0 SM	SUBSTD: 18,60	14 LM			

PROJECT:

Replace perimeter fence with new Type A fencing (Current Mission)

REQUIREMENT:

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).

CURRENT SITUATION:

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.

IMPACT IF NOT PROVIDED:

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.

ADDITIONAL:

This project meets the criteria/scope specified in Air Force Manual (AFMAN) 32-1084, *Facility Requirements*. The UFC 3-701-01, DoD Pricing Guide, USACE PAX guidance costs, and RSMeans 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		2. DATE				
AIR FORCE	FY2018 MILITARY CC					
3. INSTALLATION AND LOC	ATION	4. PROJECT TITLE				
INCIRLIK AIR BASE, TURKE	Y	OIR: REPLACE PERIMETER FENCE				
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)			
27576	872-245	LJYC183004	8,100			
12. SUPPLEMENTAL DATA:						
a. Estimated Design Data (1) Project to be accon	a: nplished by design-build proc	edures				
(2) Basis:						
(a) Standard or Def (b) Where Design V	initive Design - Vas Most Recently Used		No			
(3) All other design cos		\$000				
(4) DD Form 1391 Sub	16	16 DEC				
(5) Design Instruction	16	16 DEC				
(6) DB RFP Architect-E	ngineer (AE) Solicitation	17	17 MAR – 17 MAY			
(7) DB RFP		17	17 JUN – 18 MAR			
(8) DB Solicitation		18	18 APR – 18 JUL			
(9) DB Award		18	18 AUG			
(10) DB Construction S	Start	18	3 SEP			
(11) Energy Study/Life	No					
b. Equipment associated	N/A					

1. COMPONENT	FY 2018 MILITARY CONSTRUCTION PROJECT DATA					2. DATE	
AIR FORCE	FORCE (computer generated)						
3. INSTALLATION	, SIT	E AND LOCATION		4. PF	ROJECT TITL	E	
WORLDWIDE UNSPE	CIFIE	D		OCO F	LANNING AN	D DESIGN	
VARIOUS LOCATIO	NS						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PP	ROJECI	NUMBER	8. PROJECT (COST (\$000)
91211		961-000	/PA3	z1800	0021	41,	500
		9.	COST ESTIMA	TES			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITI	IES						41,500
PLANNING AND D	ESIGN			LS			(41,500)
SUPPORTING FACII	ITIES	3					0
SUBTOTAL						_	41,500
TOTAL CONTRACT C	OST					_	41,500
TOTAL REQUEST							41,500
TOTAL REQUEST (F	ROUNDE	ED)					41,500
10. Descripti	on of	Proposed Constru	uction:				
11. Requirement	+•	Adequate:	Substandar	-d•			
PROJECT: As r	eguir	red.					
REQUIREMENT: required to cont the FY19 Milit Military Const complex techni Construction p of the design governments an supported, amo with the plann host-nation-fu These funds wi RESOLVE. The f Guide and Unif	These mplet ary C ructi cal F rogra and co d for ng ot ed bu nded ll be unds ied F	a Overseas Conting the design of the Construction Program, and a projects with long ams. These funds re- construction manage the unspecified pail-up of Muwaffa construction effort a used to support may also be used Facilities Criter:	gency Operat facilities i ram, initiat accomplish p g lead-times may be used gement of pr ified and sp projects, an aq-Salti Ain ort at Al DH Operations for develop ia.	ions in th ce de lann for cojec ecia FREE ping	planning e United S sign of fa ing and de be include value engi ts that an l programs e planning e, kingdom Air Base, DOM'S SENT the Tri-Se	and design : States Centra acilities in esign for may ed in subsequineering and re funded by s. Specific j g requirement n of Jordan, , United Aral FINEL and INN ervices Cost	Eunds are al Command in the FY20 jor and nent Military for support foreign projects ts associated and the D Emirates. HERENT Estimating
					-11		



Department of the Air Force

European Reassurance Initiative Military Construction Program

Fiscal Year (FY) 2018 Request

Justification Data Submitted to Congress May 2017

DEPARTMENT OF THE AIR FORCE EUROPEAN REASSURANCE INITIATIVE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2018 TABLE OF CONTENTS

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

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

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

			AUTHORIZATION	APPROPRIATION
COUNTRY	INSTALLATION	PROJECT	REQUEST	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	Kecskemet 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
		Kecskemet 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
	a a''	ERI: ECAOS Deployable Airbase System		
LUXEMBOURG	Sanem Site	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

1. COMPONENT						2. DA	ГЕ П
AF:USAFE/AFAFRICA	F	Y 2018 MILITARY CON	STRUC	FION PR	OJECT DAT	A	
3. INSTALLATION, SITE AND LOCATION 4. PRO			4. PROJ	ECT TITL	E		
Ämari Air Base, Estonia E			ERI: PC	DL Capac	ity Phase II		
5. PROGRAM ELEMENT		6. CATEGORY CODE	7. PROJ	ECT NUM	IBER	8. PROJECT	COST (\$000)
27576		411-135	EE	EI18000	1	4	,700
		9 COS	T ESTIM	ΔTF			
ІТЕМ		0.000		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					1		2,544
411135 Bulk Fuel Storag	e Tank	s, 1,000m3 (4x250m3)		MЗ	1,000	909.00	909
126926 Fuel Receiving S	System	(Off-loading)		EA	2	114.53	229
126926 Covered Canopy	,			LS			143
411135 Pump House - O	pen St	ructure		LS			346
411135 Pits (various type	es) and	l filters (Total 7 ea, avg. pr	ice)	LS			212
125554 Underground Sir	ngle-wa	lled Hydrant Piping Syster	m with	LS			454
Leak Detection							050
125977 Pumps, Manifold	Biag A	ajustments/Expansion, Co	ontrois	LS			252
SUPPORTING FACILITI	ES						1,497
Utilities				LS			65
Site Improvements				LS			144
Pavements				LS			503
Fence, Security (10-ft, w	ith con	certina wire)		LS			602
Security Gates, Lighting				LS			183
SUBTOTAL							4,041
Contingency (5%)							202
TOTAL CONTRACT CO	DST						4,244
Supervision, Inspection	on and	Overhead (6.5%)					276
Design/Build - Desigr	n Cost	(4%)					162
TOTAL REQUEST							4,681
						4,700	
EQUIPMENT FROM OT	HER A	PPROPRIATIONS (NON-	-ADD)				60
10. DESCRIPTION OF Fuel Storage, and adds	PROP(addition	DSED CONSTRUCTION: nal required fuel capacity, lo	This proje	ect is a fo nd offload	llow on project t ling facility for tw	to Project EEEI vo vehicles, and	15-0006, Bulk d an access
loading/offloading points	and a	covered canopy, pumps ar	duid fuel nd filters,	piping sy	stems, equipme	ent controls, cor	nnection to

existing fuel storage facility and Phase 1 manifold/filter station, and bulk fuel storage tanks and pump house with spill containment. Supporting facilities include site development, utilities and connections, lighting, paving, walks and curbs, storm drainage, information systems, landscaping, perimeter fencing and gates, and security fencing. The facility is intended to comply with applicable DoD, Air Force, and NATO design standards. In addition, local materials and construction techniques shall be used where cost-effective. Facilities will be designed in accordance with the UFC 1-202-01, Host Nation Facilities in Support of Military Operations, USAFE/NATO Airfield Standard Design for Jet Fuel Storage Installations and STANAG 3784. This project will also comply with DoD antiterrorism requirements per UFC 4-010-01. This project will be accomplished using MILCON funding.

11. REQUIREMENT: <u>3,750</u> M3

ADEQUATE: <u>750 M</u>3

SUBSTANDARD: <u>0</u> SM

PROJECT: POL Capacity Phase 2, Ämari Air Base, Estonia (ERI)

<u>REQUIREMENT</u>: This project provides the POL fuel capacity 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. Once completed, facilities constructed as part of this project will become the property and responsibility of the host nation. To support continued operations at Ämari Air Base (AAB), additional POL fuel storage

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

<u>CURRENT SITUATION:</u> 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.

<u>IMPACT IF NOT PROVIDED</u>: 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.

<u>ADDITIONAL</u>: 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.

<u>JOINT USE CERTIFICATION</u>: 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)

1. COMPONENT					2. DATE	
AF:USAFE/AFAFRICA FY 2018 MILITARY CONSTRUCTION PROJECT DATA						
3. INSTALLATION, SITE A	ND LOCATI	ION	4. PROJECT TITLE			
Ämari Air Base, Estonia			ERI: POL Capacity Phase II			
5. PROGRAM ELEMENT	6.	CATEGORY CODE	7. PROJECT NUMBER	8. PI	ROJECT COST (\$000)	
27576		411-135	EEEI180001		4,700	
12. SUPPLEMENTAL D a. Estimated Des	DATA : ign Data:					
(1) Project to t	be accomp	olished by design-build p	procedures			
 (2) Basis: (a) Standard or Definitive Design - NC (b) Where Design was Most Recently Used - 						
(3) All other design costs (\$000)				\$260		
(4) DD Form 1391 Submittal					16 NOV	
(5) Design Ins	truction an	nd Predesign Funding			16 DEC	
(6) DB RFP A	rchitect-En	ngineer (AE) Solicitation			16 DEC – 17 FEB	
(7) DB RFP					17 MAR – 17 DEC	
(8) DB Solicita	ation				18 JAN – 18 APR	
(9) DB Award					18 MAY	
(10) DB Construction Start 18 JU					18 JUL	
(11) Energy St	udy/Life Cy	ycle Analysis was/will be	e performed		No	
b. Equipment ass	ociated wit	th this project provided t	from other appropriations:			

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

1. COMPONENT					2. DAT	E
AF:USAFE/AFAFRICA	FY 2018 MILITARY C	ONSTRUC	TION PR	OJECT DATA	\	
3. INSTALLATION, SITE AN	4. PROJ		E			
Ämari Air Base, Estonia ERI: Tactical Fighter Aircraft Parking Apron						
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJ	ECT NUM	BER	8. PROJECT C	COST (\$000)
27576	113-321	EE	EI180002	2	9,2	00
	9. C	OSTESTIN				
			0/101	QUANTIT	UNIT	7 197
113321 Apron Concre	ete Pavement		m2	25.720	141.84	3.648
112211 Taxiway Med	ium Load Concrete Paveme	nt	LS			2,433
116642 Paved Should	lers, Asphalt		LS			518
136667 Taxiway Edge	e Lighting		LS			599
SUPPORTING FACILITI	ES					740
Utilities			LS			545
Site Improvements			LS			195
SUBTOTAL						7,938
Contingency (5%)						397
TOTAL CONTRACT CO	ST					8,334
Supervision, Inspection	on and Overhead (6.5%)					542
Design/Build - Design Cost (4%)						318
TOTAL REQUEST						9,194
TOTAL REQUEST (ROUNDED)						9,200
EQUIPMENT FROM OT	HER APPROPRIATIONS (N	ION-ADD)				0

sized to accommodate various U. S. and NATO tactical fighter aircraft. Aircraft parking apron and taxiway construction for Traffic Area A Medium Load includes portland cement concrete, stabilization drainage layer on a geotechnical fabric separating layer, subbase separation layer, compacted subgrade, edge lighting, pavement markings, earthwork and grading. Shoulder pavement construction includes hot mix asphalt, stabilization drainage layer, aggregate subbase, compacted subgrade, edge lighting, pavement markings, earthwork, and grading. An oil water separator is included. The project will include using conventional design and construction methods to accommodate U.S. and NATO tactical fighter aircraft in support of the European Reassurance Initiative AF. 5 – Improve Airfield Infrastructure. The facility is intended to comply with applicable DoD, Air Force, and NATO design standards. In addition, local materials and construction techniques shall be used where cost-effective. Facilities will be designed as permanent construction in accordance with the Department of Defense (DoD) Unified Facilities Criteria UFC 1-202-01, Host Nation Facilities in Support of Military Operations and Bi-SC Directive 85-5, NATO Approved Criteria and Standards for Airfields. This project will also comply with DoD antiterrorism requirements per UFC 4-010-01. Project will be accomplished using MILCON funding.

11. REQUIREMENT: 25,720 SM

ADEQUATE: 0 SM

SUBSTANDARD: 0 SM

PROJECT: Tactical Fighter Aircraft Parking Apron (ERI)

<u>REQUIREMENT:</u> This project provides the aircraft parking space 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. Tactical Fighter Aircraft parking is required for an additional two squadrons totaling 24 aircraft. To support this operation, an apron sized to accommodate various U. S. and NATO tactical fighter aircraft including, but not limited to A-10, F-15, F-16, F-22, and F-35 aircraft is required at Amari Air Base (AAB). The ramp will accommodate up to eight aircraft. This project will directly improve airfield presence and bolster airfield capability and readiness to support bilateral and multilateral operations, exercises and training with allies and partners regarding Operation Atlantic Resolve. This includes providing a turn-off sized to accommodate large transport aircraft (up to and including the C-5 Galaxy) and the NATO Global Hawk Unmanned Aerial Vehicle. This will reduce time to launch and recover aircraft during peak operations.

<u>CURRENT SITUATION</u>: Two aircraft parking aprons for heavy and fighter-type aircraft are present at AAB. The heavy aircraft apron is sized to accommodate large transport aircraft. The fighter-type apron parking area is currently sized to

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CON	2. DATE		
3. INSTALLATION, SITE AND				
Ämari Air Base, Estonia		ERI: Tactical Fighter Aircraft Parking Apron		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER 8. PROJECT COST		
27576	113-321	EEEI180002	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.

<u>IMPACT IF NOT PROVIDED</u>: 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.

<u>ADDITIONAL:</u> 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.

<u>JOINT USE CERTIFICATION</u>: 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)

	FY 2018 MILITARY CONSTRUCTION PROJECT DATA							
AF.USAFE/AFAFRICA								
3. INSTALLATION, SITE AND LOCATION		4. PROJECT TITLE						
Ämari Air Base, Estonia		ERI: Tactical Fighter Aircraft Parking Apron						
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)					
27576	113-321	EEEI180002	9,200					
12. SUPPLEMENTAL DATA:								
 a. Estimated Design Data: (1) Project to be accomplished by design-build procedures 								
(2) Basis: (a) Standar (b) Where I	NO							
(3) All other de		\$510						
(4) DD Form 1	16 NOV							
(5) Design Ins	16 DEC							
(6) DB RFP A	16 DEC – 17 FEB							
(7) DB RFP	17 MAR – 17 DEC							
(8) DB Solicita	18 JAN – 18 APR							
(9) DB Award	18 MAY							
(10) DB Constr	18 JUL							
(11) Energy St	No							

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

1. COMPONENT						2. DA	ГЕ	
AF:USAFE/AFAFRICA	F	FY 2018 MILITARY CONSTRUCTION PROJECT DATA						
3. INSTALLATION, SITE	4. PROJECT TITLE							
KECSKEMÉT AIR BASE, HUNGARY ERI: IN			ERI: INCRE	INCREASE POL STORAGE CAPACITY				
5. PROGRAM ELEMENT	Г	6. CATEGORY CODE	7. PROJECT NUMBER		2	8. PROJECT COST (\$000)		
27576		124-135	LHKE180001		12,500			
		9. CO	ST ESTIMATE	<u> </u>		· · · · ·		
ITEM				U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILITIES							10,408	
Fuel Tank, Cut & Cover with Connections 2,500,000 L (Site A)			e 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	
SUPPORTING FACILITIES							359	
Fuel Operations Building				SM	33.3	4,341.62	145	
Utilities				LS	1		40	
Pavements				SM	3,762	2 46.43	175	
SUBTOTAL							10,767	
Contingency (5%)							538	
TOTAL CONTRACT COST							11,305	
Supervision, Inspection and Overhead (6.5%)							735	
Design/Build - Design Cost (4%)							431	
TOTAL REQUEST							12,471	
TOTAL REQUEST (ROUNDED)							12,500	
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						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, an 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. AFUSAFE/AFAFRICA FY 2018 MILITARY CONSTRUCTION PROJECT DATA

3. INSTALLATION, SITE AND LOCATION		4. PROJECT TITLE				
KECSKEMÉT AIR BASE, HUNGARY		ERI: INCREASE POL STORAGE CAPACITY				
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)			
27576	124-135	LHKE180001	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:

1. COMPONENT

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 AN	ID LOCATION	TION 4. PROJECT TITLE			
KECSKEMÉT AIR BASE,	HUNGARY	ERI: INCREASE POL STORAGE CAPACITY			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER 8. PROJECT CO			
27576	124-135	LHKE180001	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 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.

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

ECSKEMÉT AIR BASE I	DLUCATION	4. PROJECT TITL	E			
	HUNGARY	ERI: INCREASE	ERI: INCREASE POL STORAGE CAPACITY			
PROGRAM ELEMENT	6. CATEGORY COD	E 7. PROJECT NUM	BER 8. P	ROJECT COST (\$000)		
27576	124-135	LHKE1800	01	12,500		
 2. SUPPLEMENTAL DA a. Estimated Design (1) Status: (a) Date Desi (b) Parametri (c) Percent C 	TA: Data: gn Started c Cost Estimates used to complete as of 01 Feb 20	o develop costs		17 JUN YES 0%		
(d) Date 35% (e) Date Desi (f) Energy St	Designed* gn Complete udy/Life-Cycle analysis v	was/will be performed		18 MAR 18 OCT YES		
(2) Basis: (a) Standard o (b) Where Des	or Definitive Design - sign was Most Recently l	Jsed -		NO		
 (3) Total Cost (c) (a) Production (b) All Other I (c) Total (d) Contract (e) In-house 	= (a) + (b) or (d) + (e): n of Plans and Specificat Design Costs	tions		(1,000) 0 0 0 0 0		
(4) Construction (Contract Award			19 APR		
(5) Construction S	Start			19 MAY		
(6) Construction (Completion			20 NOV		
* Indicates completion traditional 35% desi	n of Project Definition wit ign to ensure valid scope	th Parametric Cost Estim a, cost and executability.	ate which is compara	ble to		
b. Equipment associa	ated with this project pro	vided from other appropr	iations:			
EQUIPMENT NC	MENCLATURE	PROCURRING APPROPRIATION	FISCAL YEAR APPROPRIATED) COST (\$000)		
Furnishings		3400	2020	2		

1. COMPONENT	-					2. DAT	E
AF:USAFE/AFAFRICA	F	FY 2018 MILITARY CONSTRUCTION PROJECT DATA					
3. INSTALLATION, SITE	AND LO	OCATION	4. PROJEC	T TITLE			
KECSKEMÉT AIR BAS	SE, HUN	NGARY	ERI: CONS	STRUCT I	PARALLEL TA	XIWAY	
5. PROGRAM ELEMENT		6. CATEGORY CODE	7. PROJEC		र	8. PROJECT C	OST (\$000)
27576		112-211	LHKI	E180002		30,0	000
		9 00	ςτ εςτιμα	TE			
		3. 00					
				U/M	QUANITTY	UNIT	COST (\$000)
PRIMARY FACILITIE	S						25,097
Parallel Taxiway v	v/ Pave	ed Shoulders (112-211)		SM	114,948	8 181.94	20,914
Ladder Taxiways	w/ Pave	ed Shoulders (112-211)		SM	27,893	150.01	4,184
SUPPORTING FACILITIES							430
Utilities				LS	1		160
Pavements				SM	2,049	74.55	153
Site Improvements	5			LS	1		85
Demolition				LS	1		32
SUBTOTAL							25,527
Contingency (5%)							1,276
TOTAL CONTRACT	COST	•					26,803
Supervision, Inspection and Overhead (6.5%)							1,742
Design/Build - Design Cost (4%)							1,021
TOTAL REQUEST							29,567
TOTAL REQUEST (R	OUND	ED)					30,000
EQUIPMENT FROM	OTHEF	R APPROPRIATIONS (N	ON-ADD)				0

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

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.

1. COMPONENT AF:USAFE/AFAFRICA

FY 2018 MILITARY CONSTRUCTION PROJECT DATA

3. INSTALLATION, SITE AND LOCATION		4. PROJECT TITLE		
KECSKEMÉT AIR BASE, HUNGARY		ERI: CONSTRUCT PARALLEL TAXIWAY		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)	
27576	112-211	LHKE180002	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 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.

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

	FY 2018 MILITAR	Y CONSTRUCTION PR	ROJECT DATA	Z. DATE	
B. INSTALLATION, SITE AN	ID LOCATION	4. PROJECT TITL	E		
KECSKEMÉT AIR BASE,	HUNGARY	ERI: CONSTRU	CT PARALLEL TAXIWAY		
. PROGRAM ELEMENT	6. CATEGORY CO	DE 7. PROJECT NUM	MBER 8. PI	ROJECT COST (\$000)	
27576	112-211	LHKE1800	IKE180002 30,000		
2. SUPPLEMENTAL DA	ATA:				
 a. Estimated Design (1) Status: (a) Date Design (b) Parametr (c) Percent 0 (d) Date 35% (e) Date Design (f) Energy S 	i Data: ign Started ic Cost Estimates used Complete as of 01 Feb 2 6 Designed* ign Complete tudy/Life-Cycle analysis	to develop costs 2018 s was/will be performed		17 JUN YES XX% 18 MAR 18 OCT YES	
(2) Basis: (a) Standard ((b) Where De	or Definitive Design - sign was Most Recently	v Used -		NO	
 (3) Total Cost (c) (a) Productic (b) All Other (c) Total (d) Contract (e) In-house 	e = (a) + (b) or (d) + (e): on of Plans and Specific Design Costs	ations		(1,000) 0 0 0 0 0	
(4) Construction	Contract Award			19 APR	
(5) Construction	Start			19 MAY	
(6) Construction	Completion			20 NOV	
* Indicates completion traditional 35% des	on of Project Definition v sign to ensure valid scor	vith Parametric Cost Estim be, cost and executability.	nate which is comparab	le to	
b. Equipment assoc	iated with this project pr	ovided from other approp	riations:		
EQUIPMENT NO	DMENCLATURE	PROCURRING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)	
N/	A	N/A	N/A	N/A	

1. COMPONENT AF:USAFE/AFAFRICA	2. DATE					
3. INSTALLATION. SITE AND LOCATION 4. PROJECT TITLE						
KECSKEMÉT AIR BAS	E, HUN	IGARY	ERI: CONSTRUCT PAR	ALLEL TA	AXIWAY	
5. PROGRAM ELEMENT		6. CATEGORY CODE	7. PROJECT NUMBER		8. PROJECT COST (\$000)	
27576		112-211	LHKE180002		30,000	
		EXISTING FACILITIES/	DEFICIENCY DETAIL DAT	A SHEE	Ī	
a. Requirements and Assets (1) <u>Scope of this Request</u> : SM/SF (2) <u>Mission</u> : European Reassurance Initiative (3) <u>Requirement</u> : (4) <u>Functional Breakout of Proposed Scope</u> : <u>Function</u> <u>SM</u> <u>SF</u> 137,221 14,770,035						
 (5) <u>Requirements/Assets</u>: a. Total requirements b. Existing Substandard c. Existing Adequate d. Funded, Not in Inventory e. Adequate (c + d) f. Included in FY15 Program g. Deficiency (a - e - f) 		<u>SM</u> 137,221 0 0 0 0 0 137,221	SF 14, 0 0 0 0 14,	770,035 770,035		

Notes: N/A

1. COMPONENT						2. DATE	E
AF:USAFE/AFAFRICA	F	FY 2018 MILITARY CONSTRUCTION PROJECT DATA					
3. INSTALLATION, SITE	AND L	OCATION	4. PROJECT	TITLE			
KECSKEMÉT AIR BAS	SE, HUN	NGARY	ERI: AIRFIE	ELD UPGF	RADES		
5. PROGRAM ELEMENT	Г	6. CATEGORY CODE	7. PROJECT	NUMBER		8. PROJECT C	OST (\$000)
27576		113-321	LHKE	180003		12,9	900
		9. CO	ST ESTIMA	ſE			
IIEM				0/101	QUANITY	UNIT	COST (\$000)
PRIMARY FACILITIE	S						10,750
TFA Parking Apro	n/Entra	nce Taxi, Shoulders (113-	321)	SM	35,38	1 165.57	5,858
Dangerous Cargo	Pad, E	ntrance Taxi, Shoulders (1	116-662)	SM	22,13	3 167.94	3,717
Cargo Vehicular D	elivery	Roadway (851-147)		SM	20,48	3 28.98	594
Cargo Marshalling	Area (4	452-252)		SM	92	0 66.16	61
Exterior Area (Mas	st) Ligh	ting (812-926)		EA	2	5 20,830.16	521
SUPPORTING FACIL	ITIES						341
Utilities				LS		1	117
Pavements					-		
Site Improvements	5			LS		1	224
SUBTOTAL							11,091
Contingency (5%)							555
TOTAL CONTRACT	COST						11,646
Supervision, Inspection and Overhead (6.5%)							757
Design/Build - Design Cost (4%)						444	
TOTAL REQUEST							12,847
TOTAL REQUEST (R	OUND	ED)					12,900
EQUIPMENT FROM	OTHER	APPROPRIATIONS (NO	N-ADD)				68

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-persquare-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

3. INSTALLATION, SITE AND LOCATION		4. PROJECT TITLE		
KECSKEMÉT AIR BASE, HUNGARY		ERI: AIRFIELD UPGRADES		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)	
27576	113-321	LHKE180003	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 CON	2. DATE			
3. INSTALLATION, SITE AND	L OCATION	4. PROJECT TITLE			
KECSKEMÉT AIR BASE, HI	JNGARY	ERI: AIRFIELD UPGRADES			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)		
27576	113-321	LHKE180003	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 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.

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

AF:USAFE/AFAFRICA	FY 2018 MILITA			OJECT DATA		2. DATE
B. INSTALLATION. SITE	AND LOCATION	4	I. PROJECT TITLE	E		
ECSKEMÉT AIR BASI	E, HUNGARY	1	ERI: AIRFIELD UPGRADES			
. PROGRAM ELEMENT	6. CATEGORY C	ODE 7	DE 7. PROJECT NUMBER			OJECT COST (\$000)
27576	113-32	21	LHKE1800	03		12,900
2. SUPPLEMENTAL	DATA:					
 a. Estimated Desi (1) Status: (a) Date D (b) Parame (c) Percen (d) Date 38 (e) Date D (f) Energy 	gn Data: esign Started etric Cost Estimates use t Complete as of 01 Fet 5% Designed* esign Complete Study/Life-Cycle analys	ed to develo o 2018 sis was/will	p costs be performed			17 JUN YES 0% 18 MAR 18 OCT Yes
(2) Basis: (a) Standar (b) Where D	d or Definitive Design - Design was Most Recen	tly Used -				NO
 (3) Total Cost (a) Produc (b) All Othe (c) Total (d) Contract (e) In-house 	(c) = (a) + (b) or (d) + (e tion of Plans and Specif er Design Costs ct se): fications				(1,000) 0 0 0 0 0
(4) Constructio	n Contract Award					19 APR
(5) Constructio	n Start					19 MAY
(6) Constructio	n Completion					20 NOV
* Indicates comple traditional 35% d	tion of Project Definitior esign to ensure valid sc	n with Param ope, cost ar	netric Cost Estima nd executability.	ate which is comp	barable	e to
b. Equipment asso	ociated with this project	provided fro	om other appropri	ations:		
EQUIPMENT	NOMENCLATURE ire Extinguishers (10 210-01-609-8709.	PRC APPR	OCURRING OPRIATION 3400	FISCAL YEA APPROPRIA OR REQUES 2020	AR TED TED	COST (\$000) 68

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA					E	
3. INSTALLATION, SITE AND	LOCATION	4. PROJEC	TTITLE				
Keflavik International Airport	Iceland	ERI: Airfiel	d Upgrad	es			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJEC	T NUMBE	R	8. PROJECT	COST (\$000)	
27576	112-211	BIKE	180001		14,400		
ITEM			U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILITIES						12,442	
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 (136-6	67)		M	8,992	466.59	4,195	
SUBTOTAL						12,442	
Contingency (5%)						622	
TOTAL CONTRACT COS	T					13,064	
Supervision, Inspection and Overhead (6.2%)						810	
Design/Build - Design Cost (4%)						523	
TOTAL REQUEST						14,397	
TOTAL REQUEST (ROUN	DED)					14,400	
EQUIPMENT FROM OTH	EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					0	

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

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

<u>CURRENT SITUATION</u>: 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.

<u>IMPACT IF NOT PROVIDED</u>: 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 flexibly 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.

<u>ADDITIONAL:</u> 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 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. POC is USAFE/A4C, commercial phone number is +49 (0) 6371-47-6773.

<u>JOINT USE CERTIFICATION</u>: 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:

1. COMPONENT AF:USAFE/AFAFRICA	F	Y 2018 MILITARY CON	STRUCTION PROJECT DATA	2. DATE
3. INSTALLATION, SITE				
Keflavik International A	irport, I	celand	ERI: Airfield Upgrades	
5. PROGRAM ELEMEN	Γ	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)
27576		112-211	BIKF180001	14,400
a. Estimated Des (1) Status: (a) Date I (b) Paran (c) Perce (d) Date I (e) Date I (f) Energ	16 Oct YES 10% 17 June 18 May YES			
 (2) Basis: (a) Standard or Definitive Design - (b) Where Design was Most Recently Used - 				NO Location
 (3) Total Cost (c) = (a) + (b) or (d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 				(\$361,000) 0 \$360,916 \$65,621 \$295,295
(4) Construct	ion Con	tract Award		17 Dec
(5) Construct	on Star	t		18 June
(6) Construct	on Com	npletion		19 Oct
* Indicates compl traditional 35%	etion of design t	Project Definition with Para to ensure valid scope, cost	ametric Cost Estimate which is com and executability.	parable to

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

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITAR		UCTION P	ROJECT DA	TA 2. D	ATE
3. INSTALLATION, SITE AND LIELVĀRDE AIR BASE, LIELV	L OCATION ĀRDE, LATVIA		4. PROJECT ERI: EXPANI	T ITLE D STRATEGIC F	RAMP PARKI	NG
5. PROGRAM ELEMENT 27596		7. PROJECT EVGA18000 ⁷	NUMBER	8. PROJEC 3,850	T COST (\$000)	
	9	. COST ESTIM	ATE			
ITEM			U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES						2,116
Construct Concrete	Strategic Apron (113-32	1)	M2	14,365	129.76	1,864
Construct Asphalt Sho	oulders (116-642)		LS	-	-	252
SUPPORTING FACILITIE	S					1,207
Utilities			LS	-	-	557
Site Improvements			LS	-	-	601
Demolition			LS	-	-	49
SUBTOTAL						3,323
Contingency (5%)						166
						3,489
Supervision, Inspecti	ion and Overhead (6.5%)					227
	jn Cost (4%)					140
						3,800
	ED ADDOODDIATIONS					3,050
and grounding for parked air grading, aviation power supp demolition of existing pavem Nation Facilities in Support of where cost-effective. Design for European Reassurance I	craft, and provide aspha oly, electrical power distr tent and storm drains. Pr of Military Operations. In and construction efforts nitiative (ERI) to include	alt shoulder pa ribution, airfield roject will be e addition, loca s will be execu construction a	iving, jet bla d edge and executed in a l materials a ted in accor and environr	st deflectors, si flood lighting, a accordance with and construction dance with the mental permits.	tormwater d an oil water s h UFC 1-202 n techniques Host Natior	rainage, site separator, and 2-01, Host s will be used agreements
11. REQUIREMENT:	14,365 SM	ADEQ	JATE: 0 SM	I S	UBSTANDA	RD: 0 SM
PROJECT: Expand Strategie	c Airlift Apron (ERI)					
<u>REQUIREMENT:</u> This project Operation Atlantic Resolve a Resolve includes bilateral and a rotational presence in Euro at key locations to support C strategic apron to increase a Resolve. The apron will mee Standards for Airfields; Unified 1-202-01, Host Nation Facilit <u>CURRENT SITUATION:</u> Exi Aircraft, such as C-17s, and Existing apron space cannot transiting C-17 aircraft to tax for the assigned mission unt	ct provides the apron spa and supports USEUCOM ad multilateral military exe ope. A mission requireme -17 aircraft. To support t irfield capability, readines at applicable criteria spec ed Facilities Criteria (UFC ties in Support of Military sting apron space at Liel their support facilities, w t accommodate the parkit i under its own power. L il an adequately sized ap	ace that is require European Repercises and trater for training this operation, ss, and safe operations; and safe	uired by US/ assurance I aining on Ian and comba Lielvārde Ai perations in Directive 85 Airfield and I and Air Force ubstandard essary comp transiting C- annot currer ucted.	AF for C-17 openitiative objection id, in the air, and toperations is a ir Base (AB) reason support of the -5 NATO Approtection Heliport Planning Manual 32-10 in size to supponents of Open 17 aircraft, nor htly support the	erations in s ves. Operati ad at sea wh substantial in quires a con Operation A oved Criteria ng and Desi 084 Facility F ort Strategic ration Atlanti accommod air mobility	upport of on Atlantic ile sustaining nfrastructure crete ttlantic and gn; UFC Requirements. Transport ic Resolve. ate one (1) requirements

1. COMPONENT AF:USAFE/AFAFRICA	E/AFAFRICA FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE							
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE								
LIELVĀRDE AIR BASE, LIELVA	ĀRDE, LATVIA	ERI: EXPAND STRATEGIC F	RAMP P	ARKING				
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PRC	DJECT COST (\$000)				
27596	113-321	EVGA180001	3,850					
IMPACT IF NOT PROVIDED (USAFE) and NATO air mob Policing efforts. The base ha presence, preventing NATO multilateral exercises and tra	<u>2</u> : If the expansion of the Strategic Ai ility assets will be unable to respond is substandard apron space to park t from satisfying the air mobility mission ining missions will be compromised.	rlift Apron is not provided, U to threats or be able to sup ransiting USAFE aircraft, wh on. Therefore, responsivene	I.S. Air port NA hich dire ss for b	Forces in Europe TO Baltic Air ectly limits airfield pilateral and				

<u>ADDITIONAL</u>: 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.

<u>JOINT USE CERTIFICATION</u>: 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

1. COMPONENT			2. DATE					
AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA							
3. INSTALLATION, SITE AND								
LIELVARDE AIR BASE, LIELVA	ARDE, LATVIA	ERI: EXPAND STRATEGIO	C RAMP PARKING					
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)					
27596	113-321	EVGA180001	3,850					
12. SUPPLEMENTAL DATA:								
a. Estimated Design Data:								
(1) Status								
(a) Design	Start		17 MAR					
(b) 35% De	esigned		17 MAY					
(c) Design	17 SEP							
(2) Basis:								
(a) Standar	rd or Definitive Design -		NO					
(b) Where	Design Was Most Recently Used		N/A					
(3) Total Design Cos	st		(140)					
(4) Construction Con	ntract Award		17 OCT					
(5) Construction Sta	rt		18 MAY					
(6) Construction Con	mpletion		19 MAY					
b. Equipment associated w	ith this project provided from other	appropriations:						
EQUIPMENT	PROCURRING	FISCAL YEAR	COST (\$000)					
NOMENCLATURE	APPROPRIATION	APPROPRIATED OF						
		REQUESTED						
NONE REQUIRED	N/A	N/A	N/A					

1. COMPONENT		FY 2018 MILIT.	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE
AIR FORCE							
3. INSTALLATION	, SITE	AND LOCATION	4. PR	OJECT TITLE	5		
CENTRAL REGIONA	L STOF	AGE FACILITY	ERI: STORA	ECAOS DEPLO GE	YABLE AIRBAS	E SYSTEM	
SANEM, LUXEMBOU	RG						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJEC	CT NUMBER	8. PROJECT	COST (\$000)
27576		442-421	/L1	JXE180	001		67,400
		9. C	OST ESTIMA	TES			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITI	ES						44,571
CONTROLLED HUMI	IDITY	WAREHOUSE (442-421)		SM	16,590	1,914	(31,749)
WAREHOUSE SUPPI	LY & E	QUIP BASE (442-758)		SM	7,295	1,488	(10,854)
SHOP, REFUELING	3 VEHI	CLE (214-467)		SM	510	3,557	(1,814)
BUILDING INFORM	MATION	SYSTEMS		LS			(154)
SUPPORTING FACII	LITIES						13,652
UTILITIES				LS			(3,138)
PAVEMENTS				LS			(1,538)
SITE IMPROVEMEN	ITS			LS			(7,535)
ENVIRONMENTAL N	AITIGA	TION		LS			(1,044)
INFORMATION SYS	STEMS			LS			(397)
SUBTOTAL							58,223
CONTINGENCY	(5.0%))					2,911
TOTAL CONTRACT C	COST						61,134
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				3,974
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	UBTOTAL)				2,329
TOTAL REQUEST							67,437
TOTAL REQUEST (F	ROUNDE	D)					67,400

EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)

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).

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.

The facility will be designed as permanent construction in accordance with DoD

(178)

1. COMPONENT FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE CENTRAL REGIONAL STORAGE FACILITY ERI: ECAOS DEPLOYABLE AIRBASE SYSTEM SANEM, LUXEMBOURG STORAGE 7. RPSUID/PROJECT NUMBER 5. PROGRAM ELEMENT 6. CATEGORY CODE PROJECT COST (\$000) 27576 442-421 /LUXE180001 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. 11. Requirement: 21130 SM Adequate: 0 SM Substandard: 0 SM PROJECT: Construct ECAOS DABS Storage 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 increasing the responsiveness of U.S. forces to reinforce the North Atlantic Treaty Organization (NATO) is by prepositioning equipment and improving infrastructure in Europe. 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. CURRENT SITUATION: 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. IMPACT IF NOT PROVIDED: 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. ADDITIONAL: 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

DRAFT 1

1. COMPONENT		'A	2. DATE				
AIR FORCE	(computer generated)						
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE							
CENTRAL REGIONAL STORAGE FACILITY ERI: ECAOS DEPLOYABLE AIRBASE STORAGE					SYSTEM		
SANEM, LUXEMBOUI	RG						
5. PROGRAM ELEME	ENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT C				8. PROJECT C	OST (\$000)	
27576	27576 442-421 /LUXE180001 6					67	,400

used when cost effective. Sustainable principles, to include life cycle costeffective 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.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .9329

<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.

	FY 2018 MILITARY C	ONSTRU	JCTION PROJECT	DATA	2. DATE		
	(comput)	er gei					
ON AND I	OCATION		4. PROJECT TI	TLE			
NAL STOR	AGE FACILITY		ERI: ECAOS DE STORAGE	PLOYABLE AIRBA	ASE SYSTEN	ſ	
BOURG							
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000							
	442-421	/	LUXE180001	67,	,400		
NTAL DATA	A: Data:						
eu Debigi							
ct to be	accomplished by de	sign-	build procedur	es			
tandard (here Des:	or Definitive Design ign Was Most Recent:	n - Ly Use	ed -		NO		
ther Des	ign Costs				0		
ruction	Contract Award				18 JUL		
ruction	Start				18 SEP		
ruction	Completion				20 APR		
y Study/	Life-Cycle analysis	was/	will be perfor	med	NO		
I NOMENC	PROC	URING	FISCA APPRC APPRO OR RE	AL YEAR PRIATED QUESTED	COST (\$000)	1	
NGS		340	0 2	2020	178		
	CON AND L CON AND L DNAL STOR COURG CEMENT CEMENT NTAL DATA ed Design act to be set to	CON AND LOCATION NAL STORAGE FACILITY SOURG LEMENT 6. CATEGORY CODE 442-421 NTAL DATA: ed Design Data: ect to be accomplished by de s: tandard or Definitive Design here Design Was Most Recention there Design Costs cruction Contract Award cruction Start cruction Completion my Study/Life-Cycle analysis ant associated with this pro- PROC T NOMENCLATURE NGS	CON AND LOCATION WAL STORAGE FACILITY SOURG LEMENT 6. CATEGORY CODE 7. PI 442-421 / NTAL DATA: ed Design Data: ect to be accomplished by design- ect	CON AND LOCATION 4. PROJECT TI NNAL STORAGE FACILITY ERI: ECAOS DE SOURG ERENT 6. CATEGORY CODE 7. PROJECT NUMBER 442-421 /LUXE180001 NTAL DATA: ed Design Data: ect to be accomplished by design-build procedur sct to be accomplished by design-build procedur sct to be accomplished by design-build procedur sct to be accomplished by design-build procedur sct to be accomplished by design-build procedur sct to De accomplished by design-build procedur sct to De accomplished by design-build procedur sct to De accomplished by design-build procedur sct to De accomplished by design-build procedur scuttor Contract Award scuttor Completion scuttor Completion scuttor PROCURING APPRC APPRO APPRO scuttor scuttor scutor	CON AND LOCATION 4. PROJECT TITLE INAL STORAGE FACILITY ERI: ECAOS DEPLOYABLE AIRESTORAGE NUMBER 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COME JUNE 442-421 /LUXE180001 67. NTAL DATA: 442-421 /LUXE180001 67. NTAL DATA: 40 Design Data: 6. carcomplished by design-build procedures 67. Int add or Definitive Design - here Design Was Most Recently Used - 7. Pther Design Costs 5. Fruction Contract Award 7. Int associated with this project provided from other appropri FISCAL YEAR AppropriateD OR REQUESTED 0. REQUESTED NGS 3400 2020	A. PROJECT TITLE RI: ECAOS DEPLOYABLE AIRBASE SYSTEM STORAGE HOURG LEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 442-421 /LUXE180001 67,400 NTAL DATA: ed Design Data: ict to be accomplished by design-build procedures it tandard or Definitive Design - NO here Design Was Most Recently Used - ther Design Costs 0 irruction Contract Award 18 JUL irruction Start 18 SEP irruction Completion 20 APR my Study/Life-Cycle analysis was/will be performed NO at associated with this project provided from other appropriations: FISCAL YEAR PROCURING APPRC APPRORIATED COST OR REQUESTED (\$000) NGS 3400 2020 178	

1. COMPONENT AF:USAFE/AFAFRICA	F	FY 2018 MILITARY CONSTRUCTION PROJECT DATA					E	
3. INSTALLATION, SITE AND LOCATION 4. PRO.			4. PROJ					
Rygge Air Station, Norway	y		ERI: Re	place/Exp	and Quick Rea	ction Alert Pad		
5. PROGRAM ELEMENT		6. CATEGORY CODE	7. PROJ	ECT NUM	BER	8. PROJECT C	COST (\$000)	
27576		113-321	EN	RY180001		10,	300	
		200 B	TESTIM	ATE		1		
ITEM		9. 003			QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILITIES							7,610	
113321 Apron				m2	10,625	190.25	2,021	
116642 Paved Should	ders			m2	2,012	127.00	256	
141181 Aircraft Shelt	ers (2))		m2	1,088	4,328.14	4,709	
843316 Fire Protection	on Sup	port Building		m2	200	1,941.18	388	
932581 Taxiway Edg	e Ligh	ting		LS			235	
SUPPORTING FACILIT	IES						1,334	
Utilities				LS			406	
Site Improvements				LS			559	
Demolition				LS			369	
SUBTOTAL							8,944	
Contingency (5%)							447	
TOTAL CONTRACT CO	DST						9,391	
Supervision, Inspection	on and	Overhead (6.5%)					610	
Design/Build - Desigr	n Cost	(4%)					358	
TOTAL REQUEST							10,359	
TOTAL REQUEST (ROUNDED)							10,300	
TOTAL REQUEST (ROL		PPROPRIATIONS (NON	I-ADD)				111	

shelters and parking apron. The aprons shall be sized to accommodate U.S. and NATO fighter aircraft of various sizes, enabling quick access to runway that meets clear/safety zone requirements. Aircraft shelters include heating, lighting, electrical grounding, fire and carbon monoxide detection and fire protection system, and electrically powered overhead doors that open within 60 seconds on each side to allow aircraft to taxi through the shelter. Taxiway edge lighting, fire protection building, and earthen berm/revetment are also included. Aircraft parking apron construction includes concrete pavement, stabilization drainage layer, subbase separation layer, compacted subgrade, rapid drainage layer, pavement markings, earthwork and grading. Paved shoulders construction includes asphalt pavement, aggregate base, drainage layer, subbase separation layer, compacted subgrade, rapid drainage layer, and grading. The project will include using conventional design and construction methods to accommodate US and NATO fighter aircraft in support of the European Reassurance Initiative (ERI) AF.5 – Improve Airfield Infrastructure. The facility is intended to comply with applicable DoD, Air Force, and NATO design standards. In addition, local materials and construction techniques shall be used where cost-effective. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-202-01, Host Nation Facilities in Support of Military Operations and Bi-SC Directive 85-5, NATO Approved Criteria and Standards for Airfields. This project will also comply with DoD antiterrorism requirements per UFC 4-010-01. Project will be accomplished using MILCON funding.

11. REQUIREMENT: <u>10,625</u> SM

ADEQUATE: <u>0</u>SM

SUBSTANDARD: 0 SM

PROJECT: Repair and Expand Quick Reaction Alert Pad (ERI)

<u>REQUIREMENT:</u> This project provides the QRA pad that is 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, a QRA pad sized to accommodate various US and NATO tactical fighter aircraft including, but not limited to F-15, F-16, F- 22 and F-35 aircraft is required at RAS. The QRA pad will accommodate up to four aircraft. This project will directly improve airfield presence and bolster airfield capability and readiness to support bilateral and multilateral operations, exercises and training with allies and partners regarding Operation Atlantic Resolve.

1. COMPONENT				2. DATE
AF:USAFE/AFAFRICA	F	Y 2018 MILITARY CON		
3. INSTALLATION, SITE A				
Rygge Air Station, Norwa	tion Alert Pad			
5. PROGRAM ELEMENT		6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)
27576		113-321	ENRY180001	10,300

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

<u>IMPACT IF NOT PROVIDED</u>: 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.

<u>ADDITIONAL:</u> 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.

<u>JOINT USE CERTIFICATION</u>: 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

1. COMPONENT					2. DATE		
AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA						
3. INSTALLATION, SITE A	STALLATION, SITE AND LOCATION 4. PROJECT TITLE						
Rygge Air Station, Norwa	У		ERI: Replace/Expand Quick R	eaction /	Alert Pad		
5. PROGRAM ELEMENT		6. CATEGORY CODE	7. PROJECT NUMBER	PROJECT COST (\$000)			
27576		113-321	ENRY180001		10,300		
12. SUPPLEMENTAL I	DATA: ign Dat	a:					
(1) Project to I	be acco	mplished by design-build p	procedures				
(2) Basis: (a) Standar (b) Where	rd or De Design	efinitive Design - was Most Recently Used -			NO		
(3) All other design costs (\$000)					\$575		
(4) DD Form 1	391 Su	ıbmittal			16 NOV		
(5) Design Ins	truction	and Predesign Funding			16 DEC		
(6) DB RFP A	rchitect	-Engineer (AE) Solicitation			16 DEC – 17 FEB		
(7) DB RFP					17 MAR – 17 DEC		
(8) DB Solicita	ation				18 JAN – 18 APR		
(9) DB Award					18 MAY		
(10) DB Const	ruction	Start			TBD		
(11) Energy St	udy/Life	e Cycle Analysis was/will b	e performed		No		
b. Equipment ass	ociated	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

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONS	TRUC		ROJECT DA	TA 2. [DATE	
3. INSTALLATION, SITE AND CÂMPIA TURZII AIR BASE, RO	4. PI ERI:	4. PROJECT TITLE ERI: UPGRADE UTILITIES INFRASTRUCTURE					
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PI	ROJECT	NUMBER	8. PROJEC	CT COST (\$000)	
27576	812-225	LRC	T180001		\$ 2,950		
	9. COST EST	TIMATE			1		
ITEM			U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILITIES						1,517	
Electrical Feeders (8	812-225) and Substations (813-231))	EA	3	505,572	2 (1,517)	
SUPPORTING FACILITIE	<u> </u>					1,029	
Meters and Switche	S		LS	-		. (135)	
Utilities			LS	-		. (783)	
Pavements			LS	-		• (11)	
Site Improvements			LS	-		. (100)	
SUBTOTAL						2,546	
Contingency (5%)						127	
TOTAL CONTRACT COS	<u>51</u>					2,673	
	ion and Overhead (6.5%)					1/4	
Design/Build - Desig	jn Cost (4%)					107	
						2,954	
TOTAL REQUEST (KOUR						2,950	
10. DESCRIPTION OF PRO primary feeders for upgradin Also includes three diesel er enclosure, concrete vaulted installed load bank. Project i transfer switches. The propo- system will comply with applito Romania is the governing Regulatory Authority for Ene effective. Design and constr European Reassurance Initi	POSED CONSTRUCTION: Construction, three addition of the additi	ruct an ional su propos I tank, a at all thi with H standa Romar d constr cordane	installati bstation ed subs automati cee exist ost natio rds. The nian star uction te ce with t ental pe	ion electrical sy is, meters and itation, each with ic transfer swith ic transfer swith ind airfield sub on design stand e European Uni indards and the echniques will the inhe host nation irmits.	vstem inclu- associated th a weather ch, and per- stations wird dards and c ion electrica regulations be used wh agreement	ding three switchgear. erproof manently th automatic codes. The al code adapted s of the National ere cost- is for the	
TI. REQUIREMENT.	3 EA ADE	EQUAT	E. U EA	5	UDSTAIND/	ARD. U EA	
PROJECT: Upgrade Installa	ation Electrical Infrastructure (ERI)		m that i	e required by I	IS A E for fig	btor and	
mobility aircraft operations in Initiative objectives. Operati land, in the air, and at sea w combat operations is substa Câmpia Turzii Air Base (AB) accommodate planned aircra all existing and USAFE prop reliability of the entire base e responsiveness during bilate <u>CURRENT SITUATION:</u> Th two squadrons of NATO tac of Operation Atlantic Resolv	n support of Operation Atlantic Resolve ion Atlantic Resolve includes bilatera /hile sustaining a rotational presence intial infrastructure at key locations to requires an upgrade to the primary aft operations at the location. The pro- loced airfield facilities necessary for electrical system, directly improving eral and multilateral exercises and tr ne existing installation electrical syst tical fighter aircraft equivalent and the re.	al and r al and r e throug to support v electric roposed the ass airfield raining tem pow heir sup	I support nultilate ghout Eu ort milita cal distri d electric signed m facilities with allie wer load oport fac	ts USEUCOM's ral military exer urope. A key co butions system cal system prov- nission. The pro- s for greater real es and partners I capacity is su cilities, which a	s European rcises and t omponent fo o support th and substa vides adequ oject increa adiness and a. bstandard i re necessa	n Reassurance rraining on or training and is operation, ations to uate power for ses the n size to support ry components	

1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CONST	2. DATE		
3. INSTALLATION, SITE AND CÂMPIA TURZII AIR BASE, RC	4. PROJECT TITLE ERI: UPGRADE UTILITIES IN	NFRAST	RUCTURE	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 812-225	7. PROJECT NUMBER LRCT180001	8. PRC \$ 2,950	JECT COST (\$000) D

<u>IMPACT IF NOT PROVIDED</u>: 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.

<u>ADDITIONAL</u>: 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

<u>JOINT USE CERTIFICATION</u>: 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.

FOREIGN CURRENCY: FCF Budget Rate Used: EUR 0.9329

1. COMPONENT			2. DATE				
AF:USAFE/AFAFRICA	AFAFRICA FY 2018 MILITARY CONSTRUCTION PROJECT DATA						
3 INSTALLATION SITE AND							
CÂMPIA TURZII AIR BASE, RC	OMANIA	ERI: UPGRADE UTILITIES	ERI: UPGRADE UTILITIES INFRASTRUCTURE				
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)				
27576	812-225	LRCT180001	\$ 2,950				
12. SUPPLEMENTAL DATA:							
a. Estimated Design Data: (1) Status							
(a) Design	Start		17 SEP				
(b) 35% De (c) Design	esigned		17 NOV 18 IAN				
	Complete						
(2) Region							
(∠) basis. (a) Standar	rd or Definitive Design -		NO				
(b) Where	Design Was Most Recently Used		N/A				
(3) Total Design Cos	st		(107)				
(4) Construction Cor	ntract Award		18 JAN				
(5) Construction Sta	art		18 MAY				
(6) Construction Cor	mpletion		19 MAR				
h Equipment associated w	with this project provided from other	annonriations					
EQUIPMENT NOMENCLATURE	PROCURRING APPROPRIATION	FISCAL YEAR APPROPRIATED OF REQUESTED	COST (\$000)				
NONE REQUIRED	N/A	N/A	N/A				

1. COMPONENT	-		etructio			2. DAT	E
AF:USAFE/AFAFRICA					ECIDAIA		
3. INSTALLATION, SITE AND LOCATION 4. PROJEC				T TITLE			
SLIAČ AIRPORT, SLO	VAKIA		ERI: AIRF	IELD UPO	RADES		
5. PROGRAM ELEMENT		6. CATEGORY CODE	7. PROJEC	TNUMBE	R	8. PROJECT (OST (\$000)
27576		113-321		LZSL1800	01	22	2,000
		9. COS	ST ESTIMA	TE			
ITEM				U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIE	s						13,944
TFA Parking Apror	n, Shoi	ulders (113-321)		SM	37,297	220.84	8,237
Runway Hammerh	ead Tu	irnaround (111-111)		SM	1,150	325.84	375
Arm/Disarm Pad, S	Should	lers (116-661)		SM	15,934	217.17	3,460
Jet Engine Power	Test P	ad, 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)			М	56	5 1,297.34	73	
SUPPORTING FACIL	ITIES						5,402
Utilities				LS	1		575
Pavements				LS	1		1,397
Site Improvements				LS	1		3,358
Demolition				SM	262	277.15	73
SUBTOTAL							19,346
Contingency (5%)						967	
TOTAL CONTRACT COST						20,314	
Supervision, Inspection and Overhead (6.5%)						1,320	
Design/Build - Design Cost (4% of Subtotal)						774	
TOTAL REQUEST							22,408
TOTAL REQUEST (R	OUND	ED)					22,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							0

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

3. INSTALLATION, SITE AND LOCATION		4. PROJECT TITLE			
SLIAČ AIRPORT, SLOVAKIA		ERI: AIRFIELD UPGRADES			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)		
27576	113-321	LZSL180001	22,000		

11. REQUIREMENT: 55,692 SM

ADEQUATE: 0SM

SUBSTANDARD: 0 SM

2. DATE

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 NATOequivalent 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 Sliač 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 Sliač 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 MI	2. DATE			
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE					
SLIAČ AIRPORT, SLOVAKIA			ERI: AIRFIELD UPGRADES		
5. PROGRAM ELEMENT	6. CATEGO	DRY CODE	7. PROJECT NUMBER	8. PF	ROJECT COST (\$000)
27576	1	13-321	LZSL180001		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 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 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							2. DATE		
AF:USAFE/AFAFRICA	FY	2018 MILITARY	CONST	RUCTION PRO	OJECT DATA				
3. INSTALLATION, SITE	AND LOC	ATION	4.	PROJECT TITLE					
SLIAČ AIRPORT, SLO	VAKIA		E	RI: AIRFIELD U	PGRADES				
5. PROGRAM ELEMENT	6	. CATEGORY CODE	. /.	PROJECT NUME	3ER	8. PR			
27576		113-321		LZSL18	0001		22,000		
12. SUPPLEMENTAL	DATA:	Droiget to be good	maliahad	by decign build	procedures				
(1) Status:	ign Dala.	Project to be accom	npiisneu	by design-build	procedures.				
(a) Date D	esign Sta	arted					18 JAN		
(b) Param	etric Cost	Estimates used to	develop	costs			YES		
(c) Percer	nt Comple	te as of 18 FEB					10% 18 MAP		
(e) Date D	esian Co	mplete					18 MAR 18 OCT		
(f) Energy	/ Study/Li	fe-Cycle analysis w	/as/will b	e performed			YES		
(2) Basis:	d or Defi	nitivo Design -					NO		
(a) Standar (b) Where I	Desian wa	as Most Recently U	lsed -				Location		
		,							
(3) Total Cost	(c) = (a) ·	+ (b) or (d) + (e):					(1,000)		
(a) Produc	ar Design	ans and Specification	ons				0		
(c) Total	er Desigi	100313					0		
(d) Contra	ct						0		
(e) In-hous	se						0		
(4) Constructio	on Contra	ct Award					19 FEB		
(5) Constructio	on Start						19 MAY		
(6) Constructio	on Compl	etion					20 NOV		
b. Equipment ass	ociated w	vith this project prov	vided fror	n other appropria	ations:				
EQUIPMENT	NOMEN	CLATURE	PRO APPR	CURRING OPRIATION		EAR ATED	COST (\$000)		
	N/A			N/A	N/A	5120	N/A		

1. COMPONENT	-					2. DATE	
AF:USAFE/AFAFRICA	F	FT 2016 MILITART CONSTRUCTION PROJECT DATA					
3. INSTALLATION, SITE	3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITI			LE			
MALACKY AIR BASE,	SLOVA	KIA	ERI: INCREAS	E POL S	TORAGE C	APACITY	
5. PROGRAM ELEMENT	Γ	6. CATEGORY CODE	7. PROJECT NU	MBER	8	B. PROJECT CO	OST (\$000)
27576		124-135	LZMC180	001		20,0	00
		9. CO	ST ESTIMATE				
ITEM				U/M	QUANTIT	Y UNIT	COST (\$000)
PRIMARY FACILITIES							16,450
Operating Storage, 2	2,500,00	00 L Tank, Cut and Cover (1	24-135)	EA		2 4,510,838	9,022
Pump House (124-13	35)			EA		2 1,074,037	2,148
Filter, Manifold, Con	trol Buil	ding (124-135)		EA		1 1,510,871	1,511
Drain Tank (124-135)						1 352,713	353
Fuel Connections, Utilities (124-135)						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
SUPPORTING FACILIT	TIES						1,039
Utilities				LS		1	365
Pavements				SM	2,39	91 94	224
Site Improvements				LS		1	312
Demolition				LS		1	137
SUBTOTAL							17,489
Contingency (5%)							874
TOTAL CONTRACT COST						18,363	
Supervision, Inspection and Overhead (6.5%)						1,194	
Design/Build - Design Cost (4% of Subtotal)							700
TOTAL REQUEST	TOTAL REQUEST						20,257
TOTAL REQUEST (ROUNDED)							20,000
EQUIPMENT FROM OT	HER A	PPROPRIATIONS (NON-A	DD)				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 2. DATE FY 2018 MILITARY CONSTRUCTION PROJECT DATA AF:USAFE/AFAFRICA 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE MALACKY AIR BASE, SLOVAKIA ERI: INCREASE POL STORAGE CAPACITY 5. PROGRAM ELEMENT 7. PROJECT NUMBER 6. CATEGORY CODE 8. PROJECT COST (\$000) 27576 124-135 LZMC180001 20,000

11. REQUIREMENT: 5,000,000 L

ADEQUATE: 0 L

SUBSTANDARD: 0 L

PROJECT: POL – Increase POL Storage Capacity (New Mission)

REQUIREMENT:

This project provides the fuel storage facility that is 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, Malacky Air Base (AB), also known as Kuchyňa AB, requires an operational jet fuel storage facility programmed to accommodate two NATO equivalent sized 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:

An adequate operational jet fuel storage facility capable of supporting TFA and STA is not currently available at Malacky AB. The current capacity for jet fuel storage is just 4 percent of the total USAF requirement necessary to sustain planned sortie generation during contingency operations. Existing fuel storage meets the minimal requisite necessary for host nation aircraft. This fuel system was constructed by the Soviet government circa 1955 and includes a hydrant pipeline from the railhead to holding tanks and then to an aircraft refueling apron. The system was abandoned in 2002 and has since deteriorated to the point of complete system failure. To overcome the situation, the installation has employed multiple fuel storage tanks for the purpose of holding fuel, not issuing fuel. Fuel is received at the railhead and immediately placed into refueler vehicles where it is then transported approximately one mile to a fuel storage tank. This tank is not part of a fuel truck loading system. As fuel levels at the primary fuel installation run low, a refueler vehicle takes fuel from this fuel storage tank and fills the primary tank. The distance between these two tanks is approximately one mile. The refueler vehicle then drives an additional mile to the aircraft to facilitate refueling operations. This method of fuel delivery is laborious, inefficient, and costly. Ultimately, it is inadequate to sustain USAF sortie generation.

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. 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 CON	2. DATE		
3. INSTALLATION, SITE A				
MALACKY AIR BASE, SL	OVAKIA	ERI: INCREASE POL STORAGE CAPACITY		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)	
27576	124-135	LZMC180001	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 RSMeans 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

1. COMPONENT				2. DATE			
AF:USAFE/AFAFRICA	х						
3. INSTALLATION, SITE							
MALACKY AIR BASE,	SLOVAKIA		ERI: INCREASE POL STORAGE	ECAPACITY			
5. PROGRAM ELEMENT	6. CA	TEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)			
27576		124-135	LZMC180001	20,000			
 12. SUPPLEMENTAL DATA: a. Estimated Design Data: Project to be accomplished by design-build procedures. (1) Status: 							
 (i) Status. (a) Date Design Started (b) Parametric Cost Estimates used to develop costs (c) Percent Complete as of: 18 FEB (d) Date 35% Designed (e) Date Design Complete (f) Energy Study/Life-Cycle analysis will be performed 				18 JAN YES 10% 18 MAR 18 OCT YES			
(2) Basis: (a) Standai (b) Where	rd or Definitiv Design was N	e Design - /lost Recently Used -		YES			
 (3) Total Cost (c) = (a) + (b) or (d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 			(1,000) 0 0 0 0 0				
(4) Construction Contract Award				19 FEB			
(5) Construction Start				19 MAY			
(6) Construction	on Completio	n		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	3400	2019	10
NSN 4920-01-550-2061			
Tank Gauge (2 Each)	3400	2019	20

1. COMPONENT						2. DAT	E
AF:USAFE/AFAFRICA	FY 2018 MILITARY CONSTRUCTION PROJECT DATA						
3. INSTALLATION, SITE AND LOCATION 4. PROJEC			T TITLE				
MALACKY AIR BASE,	SLOVA	KIA	ERI: AIRF	IELD UPO	BRADES		
5. PROGRAM ELEMENT	•	6. CATEGORY CODE	7. PROJEC	T NUMBE	R	8. PROJECT C	COST (\$000)
27576		116-661	LZ	ZMC180002	2	4,	000
		9. CO	ST ESTIMA				
				U/M	QUANTITY	UNIT	
	5				10.505		3,047
Arm/Disarm Pad (116-66	1)		SM	13,587	215	2,921
Parking Apron Exp	bansior	n (113-321)		SM	594	190	113
Parking Apron Res	striping	(113-321)		М	1,457	9	13
SUPPORTING FACILITIES							392
Utilities				LS	1	1	62
Site Improvements	;			LS	1	I	52
Demolition				LS	1	1	277
SUBTOTAL							3 438
Contingency (5%)							172
TOTAL CONTRACT COST						3,610	
Supervision, Inspection and Overhead (6.5%)						235	
Design/Build - Design Cost (4% of Subtotal)						138	
TOTAL REQUEST						3,982	
TOTAL REQUEST (ROUNDED)						4,000	
EQUIPMENT FROM (OTHER	R APPROPRIATIONS (N	ON-ADD)				0

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

3. INSTALLATION, SITE AND	LOCATION	4. PROJECT TITLE				
MALACKY AIR BASE, SLOVAKIA		ERI: AIRFIELD UPGRADES				
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)			
27576	116-661	LZMC180002	4,000			

11. REQUIREMENT: 14,181 SM

ADEQUATE: 0 SM

SUBSTANDARD: 0 SM

2. DATE

PROJECT: Airfield Upgrades (ERI) (New Mission)

REQUIREMENT:

This project provides the airfield upgrades that are required by USAF in support of Operation Atlantic Resolve and supports USEUCOM 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, Malacky Air Base (AB), also known as Kuchyňa AB, requires an arm/disarm pad and TFA parking apron programmed to support two NATO-equivalent TFA squadrons. Wingtip separation distance for the TFA parking apron 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. The arm/disarm pad and TFA parking apron require edge lighting and pavement marking/remarking. Aircraft will be able to enter, turn around, and exit the arm/disarm pad and TFA parking apron under their own power. All 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.

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:

An adequate Arm/Disarm Pad and TFA Parking Apron capable of supporting the F-15 Eagle and A-10 Warthog weapon systems are not available at Malacky AB. An existing Aircraft Parking Apron is available for United States Air Force (USAF) use per host-nation personnel. However, the apron requires remarking to meet USAF aircraft standards. Pavement thickness for existing aprons is unknown. Because the host- nation mission at Malacky AB is primarily cargo and personnel transport, an Arm/Disarm Pad is not available at the installation. This situation would require the arming and disarming of aircraft on parking aprons, taxiways, or the runway, placing personnel and property at risk and causing the disruption of airfield operations. As a result of these limitations, responsiveness for bilateral and multilateral exercises and training missions is compromised.

IMPACT IF NOT PROVIDED:

If this project is not provided, an adequate Arm/Disarm Pad and TFA Parking Apron will not be available to the DoD or its allies and partners during contingency operations. 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.
1. COMPONENT AF:USAFE/AFAFRICA	FY 2018 MILITARY CON	2. DATE				
3. INSTALLATION, SITE ANI	LOCATION	N 4. PROJECT TITLE				
MALACKY AIR BASE, SLC	IR BASE, SLOVAKIA ERI: AIRFIELD UPGRADES					
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)			
27576	116-661	LZMC180002	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 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 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

	F	Y 2018 MILITARY CON	STRUCTION PROJECT DATA		2. DATE
2 INSTALLATION SITE					
MALACKY AIR BASE					
5 PROCRAM ELEMENT				0 0	
5. PROGRAM ELEMENT		6. CATEGORT CODE		0. FI	
2/5/6		110-001	LZMC 180002		4,000
12. SUPPLEMENTAL	DATA				
 a. Estimated Des (1) Status: (a) Date I (b) Paran (c) Perce (d) Date 3 (e) Date I (f) Energ (2) Basis: (a) Standa (b) Where (3) Total Cost (a) Produ (b) All Otti (c) Total (d) Contra (e) In-hou (4) Constructi 	sign Dat Design 3 hetric C nt Com 35% De Design 9 y Study rd or De Design 9 t (c) = (a ction of her Des act use on Con	ta: Project to be accomplish Started ost Estimates used to deve plete as of 18 FEB signed Complete /Life-Cycle analysis was/wi efinitive Design - was Most Recently Used - a) + (b) or (d) + (e): Plans and Specifications ign Costs	hed by design-build procedures. Hop costs ill be performed		18 JAN YES 10% 18 MAR 18 OCT YES NO Location (1,000) 0 0 0 0 0 0 0 19 FEB
(F) Construct		4			
(5) Constructi	on Star	t			T9 MAY
(6) Constructi	on Con	npletion			20 NOV

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

1. COMPONENT		FY 2018 MIL	ITARY CONSTRU	CTION	I PROJECT D	ATA	2. DATE	
AIR FORCE	(computer generated)							
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE								
WORLDWIDE UNSPE	WORLDWIDE UNSPECIFIED				• Planning	and Design		
VARIOUS LOCATIO	NS		_					
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PR	OJECI	NUMBER	NUMBER 8. PROJECT COST (\$000)		
91211		961-000	/PAY	z1800	02E	56,630		
		9.	COST ESTIMA	TES	1	1		
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILITI	ES						56 , 630	
PLANNING AND D	ESIGN			LS			(56,630)	
SUPPORTING FACII	ITIES						0	
SUBTOTAL						-	56,630	
TOTAL CONTRACT O	OST					-	56,630	
TOTAL REQUEST							56,630	
TOTAL REQUEST (F	OUNDE	D)					56,630	
10. Descripti	on of	Proposed Constru	uction:					
11. Requiremen	t:	Adequate:	Substandar	d:				
PROJECT: As r	equir	red.						
REQUIREMENT: required to co in the FY19 Mi Military Const complex techni Construction p of the design governments an be used for de Criteria.	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.							



Department of the Air Force

Host Nation Military Construction Program

Calendar Year (CY) 2018 Budget Estimates

Justification Data Submitted to Congress May 2017

DEPARTMENT OF THE AIR FORCE HOST NATION MILITARY CONSTRUCTION PROGRAM CALENDAR YEAR 2018 TABLE OF CONTENTS

General	PAGE NUMBER
Table of Contents	
Program Summary	
Index (List of Projects)	297
Military Construction Projects	

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

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

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.

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
			10 500
		HOST NATION FUNDED CONSTRUCTION TOTAL:	19,500

1. COMPONENT								2	. DATE
AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)								
3. INSTALLATION AND LOCATION 4. PROJECT TITLE:									
KUNSAN AIR BASE, KOREA (PACAF) CONSTRUCT AIRFIELD DAMAGE REPAIR WAREHOUSE							REPAIR		
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7.	PROJECT	NUMB	BER	8. PF	OJECT CO	OST (\$000)
N/A		219-946		F19I	R620			6	500
11/7		215 540		(MLWR	1510	34)		0	,000
		9. (COST E	STIMATES	5				0007
ITEM					U/M	QUANT	ΊΤΥ	COST	(\$000)
PRIMARY FAC	ILITY								3,299
WRM ADR S	TORAGE	FACILITY			SM	1	,858	1,776	(3,299)
SUPPORTING	FACILITI	<u>ES</u>							2,549
UTILITIES					LS				(362)
PAVEMENTS	S				SM	10	,000	111	(1,110)
SITE IMPRO	VEMENT	S			LS				(532)
SECURITY F	ENCE				LM		390	194	(76)
SPECIAL FO	UNDATIO	ON			LM		994	190	(189)
FUEL STOR	AGE TAN	K			LS				(89)
EXTERIOR I	NFORMA	TION SYSTEM			LS				<u>(191)</u>
ESTIMATED C	ONTRAC	T COST							5,848
CONTINGENC	Y (5%)								292
SUBTOTAL	、 ,								6140
SUPERVISION	, INSPEC	TION AND OVERHE	AD (6.	.5%)					399
TOTAL REQUE	ST		,	,					6,539
TOTAL REQUE	EST (ROU	INDED)							6,500
		,							
10. DESCRIPTI	ON OF P	ROPOSED CONSTR	UCTIO	ON:					
Project is host nation funded. Project constructs a War Readiness Material (WRM) airfield damage									
repair (ADR) sto	orage faci	lity utilizing economic	al des	ion and c	onstr	uction m	netho	ds to acc	ommodate the
mission of the fa	acility Th	e facility will include r	ore-en	aineered	meta	l buildin	a with		ete foundation
and floor slab	sheet met	al walls, standing sea	m met	tal roof sv	/stem	fire pro	otecti	on system	n utilities and all
other necessary	/ support t	to ensure a complete	and u	sable fac	ilitv	Related	mate	rial hand	ling and large
container/cargo	vard is al	so required with the t	two ea	ch gated	two-\	Nav acci	ess p	oints and	building access
ways All applic	able fede	ral and host nation fa	acility r	equireme	ents w	vill be de	esiane	ed as ner	manent
construction in a	accordanc	e with the DoD Unifie	ed Fac	ilities Crit	teria	(UFC) 1	-200-	01 Gene	eral Building
Requirements a	and LIFC 1	-200-02 High Perfor	mance	and Sus	staina	ble Buil	dina l	Requirem	nents This
project will com	nlv with D	oD antiterrorism/force	e prote	ection rea	uiren	ients ne	r UF(2 4-010-0)1
11. REQUIREN	/ENT: 8,	815 SM ADEC	QUATE	E: 6,184 \$	SM	S	UBS	TANDAR	D: 773 SM
	ostruct Ai	rfield Damage Repair	· Wara	house (C	urror	nt Missio	n)		
<u>1 100201</u> . 00		nielu Daniage Nepali	vale		uner	11 1113310			
	T. A			(اہ میں ا	£	1 \ \ /		atons as fasility.
REQUIREMEN	I: A prop	eriy designed, adequ	ately c	configured	a and	furnisne	ed vv		storage facility
is required to pr	ovide she	Itered storage for AD	R ass	ets. It wil	I prov	/ide an e	enclos	sed and s	secure area that
will eliminate as	set deteri	oration resulting from	n envire	onmental	conc	litions, r	educe	e theft po	tential, and
increase materia	al life spa	n.							
CURRENT SITU	<u>UATION</u> :	Due to a lack of cove	ered st	torage, W	/RM a	assets a	re sto	ored in op	en, exposed
areas causing a	ccelerate	d deterioration as we	ll as p	otential th	neft o	f criticall	y cor	trolled w	artime assets.
In addition, salty	/ air and s	un damage further d	egrade	e the ADF	R ass	ets.	-		
,,		U	0		-				

1. COMPONENT

AIR FORCE REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)

3. INSTALLATION AND LOCATION

KUNSAN AIR BASE, KOREA (PACAF)

4. PROJECT TITLE

CONSTRUCT AIR FIELD DAMAGE REPAIR WAREHOUSE

2. DATE

<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.

<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

JOINT USE CERTIFICATION: 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.

1. COMPONENT					2. DATE		
AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)						
3. INSTALLATION AND L	ALLATION AND LOCATION 4. PROJECT TITLE:						
OSAN AIR BASE,	KOREA	MAIN GATE	ENTI	RY CONTR	OL FACILIT	IES	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUN	IBER	8. PRC	JECT COST (6000)	
N/A	730-837	F17R637 (SMY	U143	003)	\$13,00	0	
	9. CO	ST ESTIMATES					
	ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)	
PRIMARY FACILIT	Y					4,322	
VISITOR CONTRO	L 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 CHEC	CK FACILITY		SM	185	1,778	(329)	
POV DETAIL INSP	ECTION FACILITY		SM	177	3,068	(543)	
GUARD BOOTH			EA	3	79,000	(237)	
SUSTAINABILITY	AND ENERGY MEASURES	S	LS			<u>(85)</u>	
SUPPORTING FACE	<u>LITIES</u>		G1 f		1.50	7,249	
DEMOLITION			SM	725	150	(109)	
TRANSPORTING (CONTAMINATED SOIL					(131)	
	ENTS / RETAINING WALL					(2,096)	
UTILITIES SITE ELECTRICAL	WORK					(000)	
ACTIVE VEHICLE	CONTROL & MONITORIN	C SVSTEM				(1,334)	
	CONTROL & MONITORIN	USISIEM				(1,490)	
COMMUNICATIONS SUPPORT			LS SM	11 175	52	(525)	
ACTIVE & PASSIVE BARRIER			IS	11,175	52	(505)	
SUBTOTAL			LS			11 571	
CONTINGENCY (5	(%)					579	
TOTAL CONTRACT	COST					12.150	
SUPERVISION, IN	SPECTION AND OVERHEA	D (6.5%)				790	
TOTAL REQUEST		× ,				12,940	
TOTAL REQUEST (I	ROUNDED)					13,000	
10. DESCRIPTION OF P	ROPOSED CONSTRUCTION:			11	1		
This project is host nati	on funded. Project will constr	ruct a new main g	ate en	try control fa	acility, a visito	or control	
center, a detention area	, a pedestrian ID check facility	y, a SFS gate hous	se, a m	ain gate, a v	ehicle ID che	ck facility, a	
POV detail inspection f	facility, guard booths and all s	upporting facilitie	es to er	nsure a comp	plete and usab	le facility.	
This project will also pr	rovide all required constructio	n items such as tr	anspor	rtation, site o	levelopment,	utilities and	
connections, lighting, s	ecurity aerial lighting and CC	TV, paving, parki	ng, sic	lewalks, stor	rm drainage, r	retaining	
wall, asbestos removal	and transporting contaminated	l soil, landscaping	g, and	signage. Th	is 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							
Air Conditioning: 22 T	ing will be designed and collst	incled for US exc	Jusive	use.			
11 REQUIREMENT: 71			SUP	STANDARD	99 SM		
			506		55 OM		
PROJECT: Main Gate	Entry Control Facilities. (Cur	rrent Mission)					

1. COMPONENT AIR FORCE

REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)

2. DATE

3. INSTALLATION AND LOCATION

OSAN AIR BASE, KOREA

4. PROJECT TITLE	5. PROJECT NUMBER
MAIN GATE ENTRY CONTROL FACILITIES	SMYU143003

<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.

<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.

<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.

<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

<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.



Department of the Air Force

Military Family Housing

Fiscal Year (FY) 2018 Budget Estimate

Justification Data Submitted to Congress May 2017

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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.

FY 2018 FINANCIAL SUMMARY

AUTHORIZATION FOR APPROPRIATION REQUESTED FOR FY 2018:

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

	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Beginning of FY Adequate Inventory Total	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
Beginning of FY Inadequate Inventory Total	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
Beginning of FY Total Inventory	18,370	17,622	17,000	15,824	15,457	15,270	14,871
Percent Adequate - Beginning of FY Inventory	68%	74%	77%	80%	81%	84%	83%
Inadequate Inventory Reduced Through:	(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
Adequate Inventory Changes:	(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)
End of FY Adequate Inventory Total	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
End of FY Inadequate Inventory Total	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
End of FY Total Inventory	17,622	17,000	15,824	15,457	15,270	14,871	14,696
Percent Adequate - End of FY Inventory	74%	77%	80%	81%	84%	83%	82%
DoD Performance Goal - 90% of world-wide family housing inventory at FCI of at least 80% (Good or Fair Condition)	90%	90%	90%	90%	90%	90%	90%

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

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

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

	FY 2016	FY 2017	FY 2018	FY 2019	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>
Beginning of FY Adequate Inventory Total	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
Beginning of FY Inadequate Inventory Total	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
Beginning of FY Total Inventory	18,261	17,513	16,891	15,713	15,455	15,268	14,869
Percent Adequate - Beginning of FY Inventory	68%	75%	78%	81%	81%	84%	83%
Inadequate Inventory Reduced Through:	(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
Adequate Inventory Changes:	(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)
End of FY Adequate Inventory Total	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
End of FY Inadequate Inventory Total	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
End of FY Total Inventory	17,513	16,891	15,713	15,455	15,268	14,869	14,694
Percent Adequate - End of FY Inventory	75%	78%	81%	81%	84%	83%	82%

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.

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

MAJCOM	Project Type	Base	Total Inventory Minus Leased & Privatized	Total Inadequate Inventory	Total Inadequate Addressed
			10.280	F 114	
Units at the Begin	ning of FY2016		18,370	5,114	
Additional Inadec	uate Units Identified		0	338	0
PACAF	Condition Adjustment	Misawa		138	
PACAF	Condition Adjustment	Okinawa		156	
PACAF	Condition Adjustment	Osan		10	
USAFE	Condition Adjustment	RAF Lakenheath		34	
FY2016 Family H Projects to Elimin	ousing Construction, Im ate Inadequate Units	provement, and O&M	0	(325)	325
PACAF	FHO&M	Okinawa		(274)	274
PACAF	FHCON	Yokota		(51)	51
Privatization Proj	jects Executed		0	0	0
Units Demolished	/Divested FY2016		(748)	(630)	630
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	КМС	36	0	0
PACAF	Correction	Yokota	4	0	0
Deficit Constructi	on		0	0	0
Host Nation Cons	truction projects		0	0	0
Host Nation Cons			0	V	0
Units at End of F	Y2016		17,622	4,497	955

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.

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.

3. FHO&M investment in Okinawa to support the Japan Housing Optimization Plan as incorporated in the Family Housing Master Plan.

4. Divestiture based on Family Housing Master Plan.

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

МАЈСОМ	Project Type	Base	Total Inventory Minus Leased & Privatized	Total Inadequate Inventory	Total Inadequate Addressed
	J J			v	
Units at the Beginn	ing of FY2017		17,622	4,497	
					_
Additional Inadequ	ate Units Identified		0	532	0
PACAF	Condition Adjustment	Misawa		212	
PACAF	Condition Adjustment	Okinawa		4	
PACAF	Condition Adjustment	Yokota		140	
USAFE	Condition Adjustment	КМС		96	
USAFE	Condition Adjustment	RAF Croughton		8	
USAFE	Condition Adjustment	RAF Lakenheath		72	
FY2017 Family Ho Projects to Elimina	using Construction, Im te Inadequate Units	provement, and O&M	0	(503)	503
PACAF	FHCON	Okinawa		(214)	214
PACAF	FHO&M	Okinawa		(287)	287
USAFE	FHCON	Moron		(2)	2
Privatization Proje	cts Executed				
Units Demolished/E	Divested FY2017	I	(622)	(622)	622
PACAF	Divest	Misawa	(68)	(68)	68
PACAF	Demolish	Okinawa	(155)	(155)	155
USAFE	Divest	Incirlik Spang (Bithurg)	(07)	(07)	07 332
	Divest	Spang (Briourg)	(332)	(332)	
Deficit Construction	n				
Host Nation Constr	uction projects		0	0	0
	017		17 000	2 004	1 105
Units at End of FY2	2017		17,000	3,904	1,125
incorporated in the F	and FHCON investment Family Housing Master I	t in Okinawa to support th Plan.	ie Japan Housi	ng Optimizati	on Plan as

2. Divestiture based on Family Housing Master Plan.

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

MAJCOM	Project Type	Base	Total Inventory Minus Leased & Privatized	Total Inadequate Inventory	Total Inadequate Addressed
			1 - 000		
Units at the Beginni	ing of FY2018		17,000	3,904	
Additional Inadequ	ate Units Identified		0	191	0
PACAF	Condition Adjustment	Okinawa		3	
PACAF	Condition Adjustment	Yokota		71	
USAFE	Condition Adjustment	КМС		108	
USAFE	Condition Adjustment	RAF Lakenheath		9	
FY2018 Family Hou Projects to Eliminat	using Construction, Im te Inadequate Units	provement, and O&M	0	(334)	334
PACAF	FHCON	Okinawa		(130)	130
PACAF	FHO&M	Okinawa		(204)	204
Privatization Project	ts Executed		2	2	0
USAFA	Acquire From PH	USAFA	2	2	0
Units Demolished/D	vested FY2018		(1,178)	(614)	614
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
Deficit Construction	n				
Host Nation Constr	uction projects		0	0	0
Units at End of FY2	2018		15,824	3,149	948

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.

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 Stated 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.

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.

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

1. COMPONENT					2. DATE	
AIR FORCE	FY 2018 MILITARY CC	NSTRU	CTION PROJE	CT DATA		
3. INSTALLATION AND LOC	CATION		4. PROJECT TITLE			
VADENIA AD OVINAU	τα τα τα τα τα τα τα τα τα τα τα τα τα τ		FAMILY HOUSI	ING CONSTRU	CTION	
5 PROGRAM ELEMENT	5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT			8. PROJECT	COST (\$000)	
88742	711-000			73,2	.99	
	9. COS	T ESTIMA I I			COST	
	ITEM	U/M	QUANTITY	UNIT COST	(\$000)	
CONSTRUCTION IMPROVEMENTS PROJECTS TO IMPROVE HOUSING UNITS UN 130 TOTAL REQUEST Image: Construction of the second seco						
 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 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. <u>REOUIREMENT</u>: 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, and exterior improvements (patios, fences, storages, etc.) <u>CURRENT SITUATION</u>: 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 dor bathrooms, kitchens, and exterior circuits. Flooring, windows, and roofing require replacement. The units have inadequate living space on sont meet current codes. Ground fault circuit interrupter protection is not pr						

PAGE NO

1. COMPONENT			2. DATE					
AIR FORCE	FY 2018 MILITARY CONSTRUCTION PRO	DJECT DATA						
3. INSTALLATION AND LO	CATION							
KADENA AB, OKINAV	VA, JAPAN	-						
4. PROJECT TITLE		5. PROJECT NUMBE	R					
CONSTRUCTION IMP	ROVEMENTS							
10. Description of work to be accomplished								
Location and ProjectCurrent Working Estimate (\$000)								
KADENA AB		65.5	503					
IMPROVE FAMILY	HOUSING (SEBILLE MANOR)	,-						
LXEZ184546								
Provide whole house inte	erior and exterior modernization renovation and renair 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) - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None - WORK PROGRAMMED FOR NEXT THREE YEARS: None								
VADENA AD		0.7	17					
KADENA AD IMDDOVE EAMII V	HOUSING (NODTH TEDD ACE)	9,7	17					
	HOUSING (NORTH TERRACE)							
Provide whole house inte single family units and 6 landscaping, trash enclose marking including pedes interior doors including f Improves bathrooms, bea electrical, communicatio work. Includes demolitic provision of radon mana - WORK ACC - WORK PROO	erior and exterior modernization, renovation and repair of duplex units). Upgrades interior and exterior utility, com- ure, road surfaces, parking/driveway, sidewalk with ADA trian and other support facilities to meet current standard rames. Upgrades kitchen with the provision of secondary frooms, laundry, hallway, foyer, closets, porch, patio, sto n, plumbing, water distribution, waste collection system an n, disposal, HAZMAT remediation, testing/abatement for gement system, and smoke detectors. (Separate DD Form OMPLISHED IN PREVIOUS THREE YEARS: None GRAMMED FOR NEXT THREE YEARS: None	eighteen (18) housin munication infrastruc A compliance ramps, s. Replaces windows, dining or pass-throu rage, mechanical room and HVAC system in r asbestos/mold/lead 1391 attached)	g units (12 cture, pavement exterior and gh counter. m, roof covering, cluding duct based paint,					
KADENA AB IMPROVE FAMILY	HOUSING (KADENA HEIGHTS)	5,,	397					
Provide whole house inte Upgrades interior and ex road/parking surfaces, si replacement of windows secondary dining or pass bathrooms, bedrooms, la distribution, waste collect testing/abatement for ast - WORK ACCO - WORK PROG	erior and exterior modernization, renovation and repair of terior service lateral utilities, communication infrastructu dewalk, pavement marking, roof covering, patio, and med , exterior and interior doors including frames. Upgrades k -through counter. Improves interior spaces to include liv undry, hallways, stairs, storage, closets and electrical, con tion and HVAC systems. Includes demolition, disposal, l estos/mold/lead based paint. (Separate DD Form 1391 at MPLISHED IN PREVIOUS THREE YEARS: None RAMMED FOR NEXT THREE YEARS: None	E 12 JNCO 4-BR fami re, landscaping, trash chanical room. Work citchen with the provi ing room, dining roon mmunication, plumbi HAZMAT remediation tached)	ly housing units. enclosure, includes sion of m, family room, ng, water on,					
DD FORM 1391c. DEC 76	PREVIOUS EDITIONS MAY BE USED INT	ERNALLY PAG	E NO					
1. COMPONENT		FY 2018 MILIT	ARY CONST	RUCT	ION PROJECT	2. DATE		
--	-------	----------------------	-----------	-------	--------------------------	--------------------	--------	-------------------
AIR FORCE		(computer generated)						
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE # 1 JAPAN					4. PROJECT IMPROVE FA	TITLE MILY HOUS	SING,	KAB NORTH TERRACE
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPS				ID/PI	ROJECT NUMB	ER 8	. PROJ	ECT COST (\$000)
88742		711-143	24	105/I	XEZ184581			9,717
		9. COS	T ESTIMAT	TES	1			
		ттем		тт /м	OIIANTTTY	UNIT		COST
		116M		0/14	QUANTITI	0.051	•	(\$000)
PRIMARY FACILITIE	IS							8,191
UNIT TYPE, F2-5	6 (3	INCO 2BR)		UN	7	418	3,169	(2,927)
UNIT TYPE, G3-5	6 (5	SNCO 3BR)		UN	2	560	,667	(1,121)
UNIT TYPE, H4-5	6 (3	INCO 4BR)		UN	3	558	3,623	(1,676)
UNIT TYPE, K2-5	6 (3	INCO 2BR)		UN	6	384	277	(2,306)
SUSTAINABILITY	& ENE	RGY MEASURES		LS				(161)
SUPPORTING FACILI	TIES							499
INFRASTRUCTURE				LS				(280)
PAVEMENT				LS				(219)
SUBTOTAL								8,689
CONTINGENCY	(5.0%	;)						434
TOTAL CONTRACT CO	OST							9,124
SUPERVISION, INSP	PECTI	ON 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 PROJECT: IMPROVE FAMILY HOUSING, KAB NORTH TERRACE (18 UN) REQUIREMENT: This project is required to provide modern and efficient housing for

<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	FY 2018 MILIT	FY 2018 MILITARY CONSTRUCTION PROJECT DATA					
AIR FORCE	(c	(computer generated)					
3. INSTALLATION,	INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE						
KADENA AIR BASE		IMPROVE FAMILY I	IMPROVE FAMILY HOUSING, KAB NORTH TERRACE				
KADENA AIR BASE S	SITE # 1						
JAPAN							
5. PROGRAM ELEMEN	NT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)				
88742	711-143	2405/LXEZ184581	9,717				

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.

<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.

<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.

<u>ADDITIONAL:</u> The project is for North Terrace, buildings 2729, 2731, 2733, 2735, 2805, 2809 & 2813 (all single units, type F2-56), 2803 & 2807 (single unit, type G3-56), 2801, 2811 & 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.

FOREIGN CURRENCY: FCF Budget Rate Used: YEN 111.3365

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			2. DATE
	FY 2018 MILITARY CONSTRUCTION PRO	OJECT DATA	
AIR FORCE			
3. INSTALLATION AND	DLOCATION		
KADENA AIR BAS	E, JAPAN		
4. PROJECT TITLE		5. PROJECT NUMBE	R
IMPROVE FAMIL	HOUSING (KAB NORTH TERRACE)	LXEZ18458	1
12 SUPPLEMENT	AL DATA	Linger	-
a. Estimated Design	Data:		
u. Estimated Design			
(1) Status:			
(a) Date I	Design Started		15 Jul 16
(b) Param	etric Cost Estimate used to develop costs		Ν
(c) Percer	t Complete as of Jan 2017		35
(d) Date 3	5% Designed		31 Jan 17
(e) Date I	Design Complete		30 Sep 17
(f) Energy	Study/Life-Cycle analysis was performed;		
(2) Basis:			
(a) Standar	d or Definitive Design -		NO
(b) Where	design was most recently used -		N/A
(3) Total Cost	(c) = (a) + (b) or (d) + (e):		(\$000)
(a) Produ	ction of Plans and Specifications		583
(b) All ot	her Design Costs		292
(c) Total	6		875
(d) Contra	ict		729
(e) In-hou	se		146
(4) Constructio	n Contract Award		15 Mar 18
(5) Constructio	a Start		20 Jul 18
(6) Constructio	n Completion		20 Jan 20
b. Equipment assoc	ated with this project will be provided from other appropriati	ons: N/A	

1. COMPONENT		FY 2018 MILIT	ARY CONST	RUCT	ION PROJECT	DATA		2. DATE		
AIR FORCE		(c	omputer g	ener	nerated)					
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE # 1 JAPAN					4. PROJECI IMPROVE FA	' TITLH MILY H	E HOUSING,	KAB KADENA HEIGHT		
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUI				LD/PF	ROJECT NUMB	ER	8. PRO	JECT COST (\$000)		
88742		711-171	24	405/I	XEZ184543			5,397		
		9. COST	ESTIMAT	TES	1	1		F		
						ט	NIT	COST		
	ITEM				QUANTITY	c	OST	(\$000)		
PRIMARY FACILITIE	s							4,773		
UNIT TYPE, JB4-	90 ((JNCO 4BR)		EA	12		389,952	(4,679		
SUSTAINABILITY a	& ENE	RGY MEASURES		LS				(94		
SUPPORTING FACILI	TIES							53		
INFRASTRUCTURE				LS				(8		
PAVEMENT				LS				(45		
SUBTOTAL								4,826		
CONTINGENCY	(5.0%	;)						241		
TOTAL CONTRACT CO	OST							5,067		
SUPERVISION, INSE	PECTI	ON 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	FY 2018 MILIT	FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE					
AIR FORCE	(c	(computer generated)					
3. INSTALLATION,	TION, SITE AND LOCATION 4. PROJECT TITLE						
KADENA AIR BASE		IMPROVE FAMILY	HOUSING, KAB KADENA HEIGHT				
KADENA AIR BASE S	SITE # 1						
JAPAN							
5. PROGRAM ELEMEN	NT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)				
88742	711-171	2405/	5,397				

and exterior utility and communication infrastructure, community and neighborhood improvements are required.

<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.

<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.

<u>ADDITIONAL:</u> The project is for the Improvement of buildings 2442 & 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.

FOREIGN CURRENCY: FCF Budget Rate Used: YEN 111.3365

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 2. DATE FY 2018 MILITARY CONSTRUCTION PROJECT DATA AIR FORCE 3. INSTALLATION AND LOCATION KADENA AIR BASE, JAPAN 4. PROJECT TITLE 5. PROJECT NUMBER IMPROVE FAMILY HOUSING (KAB NORTH TERRACE) LXEZ1845431 12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Status: 15 Jul 16 (a) Date Design Started (b) Parametric Cost Estimate used to develop costs Ν (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 20 Jul 18 (5) Construction Start (6) Construction Completion 20 Jan 20 b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT		FY 2018 MILIT	ARY CONST	TRUCTION PROJECT DATA					2. DATE	
AIR FORCE		(c	omputer g	ener	ated)					
3. INSTALLATION,	SITE	E AND LOCATION			4. PROJECT	TITLE	6			
KADENA AIR BASE					IMPROVE FA	MILY H	OUSING,	KAB	SEBILLE ?	MANOR
KADENA AIR BASE	SITE	# 1								
JAPAN										
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. R				ID/PF	OJECT NUMB	ER	8. PRO	JECT	COST (\$0	00)
88742		711-143	24	105/L	XEZ184546			6	5,503	
		9. COS1	ESTIMA	res						
						υ	NIT		COST	
		ITEM		U/M	QUANTITY	C	OST		(\$000)	
PRIMARY FACILITIE	PRIMARY FACILITIES								56	5,509
UNIT TYPE, CT3-	64 (J	INCO 3BR)		UN	26		600,840		(15	;,622)
UNIT TYPE, DT4-	64 (S	SNCO 4BR)		UN	30		527,535		(15	5,826)
UNIT TYPE, DT4-	64 W/	' EXT STORAGE (SNCO 4	BR)	UN	44		544,384		(23	,953)
SUSTAINABILITY a	& ENE	RGY MEASURES		LS					(1	L,108)
SUPPORTING FACILI	TIES								2	2,067
INFRASTRUCTURE				LS					(753)
PAVEMENT				LS					(1	L,314)
SUBTOTAL									58	3,576
CONTINGENCY	(5.0%	;)							2	2,929
TOTAL CONTRACT CO	DST								61	,505
SUPERVISION, INSE	PECTI	ON AND OVERHEAD	(6.5%)						3	3,998
TOTAL REQUEST									65	5,503
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 <u>PROJECT:</u> IMPROVE FAMILY HOUSING, KAB SEBILLE MANOR (100 UN) <u>REQUIREMENT:</u> 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	FY 2018 MILITZ	FY 2018 MILITARY CONSTRUCTION PROJECT DATA 2. DATE					
AIR FORCE	(co	(computer generated)					
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE IMPROVE FAMILY HOUSING, KAB SEBILLE MA							
KADENA AIR BASE IMPROVE FAMILY HOUSING, KAB SEBILLE MA KADENA AIR BASE SITE # 1 JAPAN							
5. PROGRAM ELEME	NT 6. CATEGORY CODE	7. RPSUID/PI	ROJECT NUMBER	8. PROJECT	COST (\$000)		
88742	711-143	2405/1	LXEZ184546		65,503		
electrical panels, telecommunication distribution), Mechanical Systems (air handling unit, condenser, duct works and exhaust fans), Plumbing Systems (domestic							

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).

<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.

<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.

<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.

FOREIGN CURRENCY: FCF Budget Rate Used: YEN 111.3365

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			2. DATE		
	FY 2018 MILITARY CONSTRUCTION PRO	DJECT DATA			
AIR FORCE					
3. INSTALLATION AND LO	CATION				
KADENA AIR BASE, J	APAN				
4. PROJECT TITLE		5. PROJECT NUMBE	R		
IMPROVE FAMILY HO	DUSING (KAB NORTH TERRACE)	LXEZ18454	.6		
12. SUPPLEMENTAL	DATA:				
a. Estimated Design Data	a:				
(1) Status:					
(a) Date Desig	on Started		15 Jul 16		
(b) Parametric	Cost Estimate used to develop costs		N		
(c) Percent Co	omplete as of Ian 2017		35		
(d) Data 35%	Designed		31 Ion 17		
(a) Date 35% Designed					
(e) Date Desig	gii Complete		50 Sep 17		
(1) Energy Su	ady/Life-Cycle analysis was performed;				
(2) Basis:			NO		
(a) Standard or	Definitive Design -		NO		
(b) Where desi	gn 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 I	Design Costs		1.965		
(c) Total	6		5,895		
(d) Contract			4.912		
(e) In-house			983		
(c) in nouse			200		
(4) Construction Co	ontract Award		15 Mar 18		
(5) Construction Sta	art		20 Jul 18		
(6) Construction Co	ompletion		20 Oct 20		
. /					
b. Equipment associated	with this project will be provided from other appropriation	ons: N/A			

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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								2. DATE
AIR FORCE	F	Y 2018 MILITARY CO	NSTRI	10		=C	Τ ΠΑΤΑ	2. 0/112
	-							
3. INSTALLATION AND LOO		N			4. PROJECT TITLE	E		•
	D 4 6 F				FAMILY HOUS	IN	G PLANNIN	G AND DESIGN
5 PROCRAM ELEMENT	BASE							
5. FROGRAW ELEWENT		0. CATEGORT CODE	<i>1</i> . FIX	05	ECT NOMBER		0. FROJECT	0001 (\$000)
88742		711-000					4,44	5
		9. COST	ESTIMA	ΛTE				
		1	11/1/1					(\$000)
FAMILY HOUSING PL		NG	0/101		QUANTIT		5001 0031	(+)
AND DESIGN			LS					4,445
SUBTOTAL								4,445
TOTAL CONTRACT CO	OST							4,445
TOTAL REQUEST								
10. DESCRIPTION OF PRO	POSE	D CONSTRUCTION: Archit	ect-engi	rin	eer services, su	rv	ev. fees. etc	in connection
with advance planning	and d	lesign of family housing	dwelling	g	units and proper	rti	es included in	n or proposed
for the Air Force Fami	ly Ho	using Construction Acco	unt.	0	FF			
11. PROJECT: This rec	juest i	s for an authorization and	approp	pr	iation of \$4.445	5 n	nillion to prov	vide planning
and design costs in con	inectio	on with family housing n	ew cons	sti	uction or constr	ruc	ction improve	ements
programs.							-	
<u>REQUIREMENT</u> : The	funds	requested are necessary t	o procu	ıre	e architect-engin	nee	er services to	make site and
utility investigations; o	ne tin	ne multi-phase design, an	d housi	ing	g community pr	of	iles (HCP) de	evelopments;
and for the preparation	of de	sign and specifications of	f advano	ce	plans for future	e y	ear family h	ousing
programs in connection	n with	any family housing new	constru	uc	tion or construc	tic	on improvem	ents programs.
IMPACT IF NOT PROV	IDED	: The funds requested are	e necess	sa	ry to support the	e ċ	levelopment	of the housing
community plans and t	o sup	port the new construction	and co	ons	struction improv	vei	nents progra	ms. Without
the requested funds, ho	ousing	community profiles can	not be d	le	veloped and the	ne	ew constructi	ion and
construction improvem	nents p	programs cannot be desig	ned and	d c	constructed.			

DD FORM 1391, DEC 76

OPERATIONS, UTILITIES AND MAINTENANCE

(Excludes Leasing and Privatization)

Budget Request (\$ in Thousands) FY 2018 Budget Request \$279,937 FY 2017 Budget Request \$212,090

<u>Purpose and Scope:</u> 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. <u>Operations</u>. This portion of the program provides for operating expenses in the following sub-accounts:

(1) <u>Management</u>. 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) <u>Services.</u> 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.

(3) <u>Furnishings</u>. 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) <u>Miscellaneous</u>. 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. <u>Utilities</u>. 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. <u>Maintenance</u>. 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.

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

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

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USAF FY2018 PB					Fiscal Year:	2018
Family Housing Operation and Main	tenance, Sumn	nary			Command:	USAF
Excludes Leased Units and Costs		·			Exhibit:	FH-2
Worldwide Summary						
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
	Total Cost	Unit	Total Cost	Unit	Total Cost	Unit
Funding Requirements (\$000)	(\$000)	Cost (\$)	(\$000)	Cost (\$)	(\$000)	Cost (\$)
OPERATIONS (DIRECT)						
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
Gross Obligations, Operations	69,611	3,868	89,837	5,189	98,701	6,014
UTILITIES (DIRECT)						
Direct Utilities	42,418	2,357	37,241	2,151	47,504	2,894
Anticipated Reimbursements	461	26	1,507	87	1,507	92
Gross Obligations, Utilities	42,879	2,383	38,748	2,238	49,011	2,986
MAINTENANCE (DIRECT)						
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
Gross Obligations, Maintenance	133,796	7.435	89.220	5 154	137,940	8.404

GRAND TOTAL, FHO&M - Direct	244,426	13,582	212,090	12,036	279,937	16,465
Anticipated Reimbursements	1,860	103	5,715	330	5,715	348
GRAND TOTAL, FHO&M - TOA	246,286	13,686	217,805	12,581	285,652	17,404

USAF FY2018 PB					Fiscal Year:	2018
Family Housing Operation and Maint	enance, Summ	nary			Command:	USAF
Excludes Leased Units and Costs	,	·			Exhibit:	FH-2
Contiguous US						
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)	Cost (\$)
OPERATIONS (DIRECT)						
Management	16,286	N/A	23,058	N/A	28,762	N/A
Services	173	N/A	240	N/A	244	N/A
Furnishings	545	N/A	594	N/A	552	N/A
Miscellaneous	380	N/A	400	N/A	478	N/A
Sub-Total Direct Operations	17,384	N/A	24,292	N/A	30,036	N/A
Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
Gross Obligations, Operations	17,384	N/A	24,292	N/A	30,036	N/A
UTILITIES (DIRECT)						
Direct Utilities	241	N/A	193	N/A	243	N/A
Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
Gross Obligations, Utilities	241	N/A	193	N/A	243	N/A
MAINTENANCE (DIRECT)						
M&R Dwelling	582	N/A	400	N/A	600	N/A
M&R Ext. Utilities	35	N/A	38	N/A	70	N/A
M&R Other Real Property	150	N/A	0	N/A	0	N/A
Alter & Add.	0	N/A	0	N/A	0	N/A
Sub-Total Direct Maintenance	767	N/A	438	N/A	670	N/A
Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
Gross Obligations, Maintenance	767	N/A	438	N/A	670	N/A
		N/A		N/A		N/A
GRAND TOTAL, FHO&M - Direct	18,392	N/A	24,923	N/A	30,949	N/A
Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
GRAND TOTAL, FHO&M - TOA	18,392	N/A	24,923	N/A	30,949	N/A

MAY 2017

USAF FY2018 PB					Fiscal Year:	2018
Family Housing Operation and Ma	intenance, Sui	mmary			Command:	USAF
Excludes Leased Units and Costs		-			Exhibit:	FH-2
US Overseas						
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	Unit
Funding Requirements (\$000)	(\$000)	Cost (\$)	(\$000)	Cost (\$)	(\$000)	Cost (\$)
OPERATIONS (DIRECT)						
Management	1,110	N/A	1,572	N/A	1,960	N/A
Services	0	N/A	0	N/A	0	N/A
Furnishings	614	N/A	693	N/A	744	N/A
Miscellaneous	0	N/A	0	N/A	0	N/A
Sub-Total Direct Operations	1,724	N/A	2,265	N/A	2,704	N/A
Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
Gross Obligations, Operations	1,724	N/A	2,265	N/A	2,704	N/A
UTILITIES (DIRECT)						
Direct Utilities	0	N/A	0	N/A	0	N/A
Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
Gross Obligations, Utilities	0	N/A	0	N/A	0	N/A
MAINTENANCE (DIRECT)						
M&R Dwelling	0	N/A	0	N/A	0	N/A
M&R Ext. Utilities	0	N/A	0	N/A	0	N/A
M&R Other Real Property	0	N/A	0	N/A	0	N/A
Alter & Add.	0	N/A	0	N/A	0	N/A
Sub-Total Direct Maintenance	0	N/A	0	N/A	0	N/A
Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
Gross Obligations, Maintenance	0	N/A	0	N/A	0	N/A
GRAND TOTAL, FHO&M - Direct	1,724	N/A	2,265	N/A	2,704	N/A
Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
GRAND TOTAL, FHO&M - TOA	1,724	N/A	2,265	N/A	2,704	N/A

MAY 2017

USAF FY2018 PB					Fiscal Year:	2018
Family Housing Operation and M	aintenance, Si	immary			Command:	USAF
Excludes Leased Units and Costs	,	<i>u</i>			Exhibit:	FH-2
Foreign						
Fiscal Year:	2016		2017		2018	
Inventory Data (Units)						
Units in Being Beginning of Year		18,261		17,513		16,891
Units in Being at End of Year		17,513		16,891		15,713
Average Inventory for Year		17,887		17,202		16,302
Historic Units		0		0		0
	Total Cost	Unit	Total Cost	Unit	Total Cost	Unit
Funding Requirements (\$000)	(\$000)	Cost (\$)	(\$000)	Cost (\$)	(\$000)	Cost (\$)
OPERATIONS (DIRECT)						
Management	12,918	722	18,289	1,063	22,742	1,395
Services	9,174	513	12,786	743	13,273	814
Furnishings	26,949	1,507	30,403	1,767	28,128	1,725
Miscellaneous	1,305	73	1,345	78	1,361	83
Sub-Total Direct Operations	50,346	2,815	62,823	3,652	65,504	4,018
Anticipated Reimbursements	157	9	202	12	224	14
Gross Obligations, Operations	50,503	2,823	63,025	3,664	65,728	4,032
UTILITIES (DIRECT)						
Direct Utilities	42,177	2,358	37,048	2,154	47,261	2,899
Anticipated Reimbursements	461	26	406	24	511	31
Gross Obligations, Utilities	42,638	2,384	37,454	2,177	47,772	2,930
MAINTENANCE (DIRECT)						
M&R Dwelling	99,500	5,563	62,552	3,636	99,762	6,120
M&R Ext. Utilities	14,056	786	9,314	541	13,971	857
M&R Other Real Property	16,280	910	11,959	695	18,102	1,110
Alter & Add.	1,951	109	1,206	70	1,684	103
Sub-Total Direct Maintenance	131,787	7,368	85,031	4,943	133,519	8,190
Anticipated Reimbursements	1,242	204	773	6,250	971	10,261
Gross Obligations, Maintenance	133,029	7,437	85,804	4,988	134,490	8,250
GRAND TOTAL, FHO&M - Direct	224,310	12,540	184,902	10,749	246,284	15,108
Anticipated Reimbursements GRAND TOTAL, FHO&M - TOA	1,860 226,170	104 12,644	5,715 190,617	332 11,081	5,715 251,999	351 15,458

MAY 2017

Fiscal Year:	2016	2017	2018
1. Historic Housing Costs, Non-GOQ Data			
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
2. Historic Housing Costs, GOQ Data			
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
3. Total Historic Inventory & Costs (Non-GOQ & GOQ)			
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

Summary of Historic Housing Detail

Family Housing Operation and Maintenance Reprogramming Actions

		as of 50 Sep 2010		
	FY 2016	Funds	Percent	FY 2016
	Appropriation	Reprogrammed	Reprogrammed	End of Year
Utilities	40,811	2,112	5.18%	42,923
Operations				
Management	52,153	-20,576	-39.45%	31,577
Services	12,940	-3,522	-27.22%	9,418
Furnishings	38,746	-10,062	-25.97%	28,684
Miscellaeous	2,032	-369	-18.16%	1,663
Leasing	28,867	-14,962	-51.83%	13,905
Maintenance	114,129	28,085	24.61%	142,214
Debt	0	0	0.00%	0
Privatization	41,554	19,294	46.43%	60,848
Foreign Currency	0	36,065	N/A	36,065
Total	331,232	36,065		367,297

(\$ in Thousands)

RECONCILIATION OF INCREASES AND DECREASES

EXHIBIT OP-5

<u>Management.</u> 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.

RECONCILIATION OF INCREASES AND DECREASES

EXHIBIT OP-5

<u>Services.</u> 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.

RECONCILIATION OF INCREASES AND DECREASES

EXHIBIT OP-5

<u>Furnishings.</u> 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

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.

RECONCILIATION OF INCREASES AND DECREASES

EXHIBIT OP-5

<u>Miscellaneous.</u> 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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RECONCILIATION OF INCREASES AND DECREASES

EXHIBIT OP-5

<u>Utilities</u>. 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.

1 \

			(\$ 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.

Family Housing Summary of Utility Detail FH-10 Exhibit					
Fiscal Year:	2016	2017	2018		
TOTAL COST OF UTILITIES (\$000)	42,418	37,241	47,504		
UTILITY QUANTITIES					
Electricity (KwH)	233,989,049	225,095,488	213,406,437		
Heating					
Gas (CF)	666,326,554	641,000,517	607,713,810		
Fuel Oil					
Residuals (BBLS)	22.765	21.250	20.992		
Distillates (BBLS) Purchased Steam (MBTU)	32,703 361 303	31,230 347 571	29,003		
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		
Water (Kgal)	2,845,366	2,737,218	2,595,076		
Sewage (Kgal)	2,570,961	2,473,242	2,344,808		

RECONCILIATION OF INCREASES AND DECREASES

EXHIBIT OP-5

<u>Maintenance</u>. 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

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)			
OVERSEAS											
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
			OVERSEAS									
Germany												
	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 fascia/soffit (190 SF) over	fencing by the sunroo	replacing e m.	xisting deteriora	ted wooden fence,	including gates a	nd doors, wit	h a low maint	enance vinyl/ plastic	c fence. Also, re	place the rotting
TOTAL:	1 GOH Unit				\$6.0	\$46.5	\$52.5	\$13.0	\$0.0	\$0.0	\$65.5	\$0.0

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

State/ Country	Installation	Quarters ID	Year Built	Size NSF	Total FHO&M Cost	Alternative Use	Cost to Convert Unit	If O&M >\$35K Demolish & Rebuild Cost						
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						
TOTAL:							\$.	\$.						
	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)													
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State/Country	Installation	Ouarters 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							
Total					54.8	273.1	327.9							

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.

<u>Reimbursement.</u> 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. None Supplementals: 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: \$114 a. Inflation (2.0%) 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

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>FY</u>	<u>FY 16</u>		<u> </u>	<u>FY 18</u>		
	Lease Pts	Used	<u>Cost</u> (\$000)	Used	<u>Cost</u> (\$000)	Used	<u>Cost</u> (\$000)	
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	

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.

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 divesture 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)

	FY 16				FY 17			FY 18		
LOCATION		LEASE	COST		LEASE	COST		LEASE	COST	
	# UNITS	MONTHS	(\$000)	# UNITS	MONTHS	(\$000)	# UNITS	MONTHS	(\$000)	
DOMESTIC LEASES										
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	
TOTAL DOMESTIC LEASES	3,333	24	\$ 60	3,333	180	\$ 443	3,333	180	\$ 447	
FOREIGN LEASES										
Department of State (§2834):	•									
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	
Vilinus, Lithuania	0	0	\$0	3	36	\$350	3	36	\$230	
DoS Subtotal	48	650	\$ 3,333	88	1,056	\$ 8,172	85	1,020	\$ 6,927	
AF Foreign Leases (§2828):										
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	
AF Foreign Leases Subtotal	427	5,145	\$ 10,323	338	3,456	\$ 11,915	212	1,668	\$ 8,844	
Unassigned	8,513	0	\$0	8,562	0	\$0	8,691	0	\$600	
TOTAL FOREIGN LEASES	8,988	5,795	\$ 13,656	8,988	4,512	\$ 20,087	8,988	2,688	\$ 16,371	
GRAND TOTAL FH-4	12,321	5,819	\$ 13,716	12,321	\$ 4,692	\$ 20,530	12,321	\$ 2,868	\$ 16,818	

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

	FY18									
	TOTAL		FY16			FY17			FY18	
LOCATION	LEASES	HIGH	HIGH	EST	HIGH	HIGH	EST	HIGH	HIGH	EST
	PER	COST	COST	COST	COST	COST	COST	COST	COST	COST
	LOCATION	UNITS	DEFINED	(\$000)	UNITS	DEFINED	(\$000)	UNITS	DEFINED	(\$000)
DOMESTIC LEASES	0	0	\$29,646	\$0	0	\$29,646	\$0	0	\$	\$0
Sub-Total Domestic High-cost	0	0		\$0	0		\$0	0		\$0
FOREIGN LEASES										
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
Sub-Total Foreign High-cost	40	33		\$2,078	43		\$3,588	40		\$3,405
GRAND TOTAL FH-4A	40	33		\$2,078	43		\$3,588	40		\$3,405

Note:

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

FAMILY HOUSING PRIVATIZATION

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

<u>Purpose and Scope:</u> 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.

<u>Program Summary:</u> 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.

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.

	Actual/Current ⁴									
Privatization	Project Name and/or	Units	End			Fund	ling Source ⁶	Authori-		
Date ¹	Installation/State ²	Conveyed ⁵	State Units ⁵	Amount (\$M)	Budget Year(s)	Туре	Project	ties ⁷		
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 Luke AFB, AZ Sheppard AFB, TX Tyndall AFB, FL	883 690 1,167 848	530 550 714 813	6.244	04	Improvement	Sheppard Privatize 1,288 MFH	1, 4		
	AETC Group I Total:	3,588	2,607							

			Actual/Current ⁴								
Privatization	Project Name and/or	Unite	End			Fund	ling Source ⁶	Authori-			
Date ¹	Installation/State ²	Conveyed ⁵	State Units ⁵	Amount (\$M)	Budget Year(s)	Туре	Project	ties ⁷			
May-07	US Air Force Academy, CO	1,207	427	2.219	06	Improvement	AF Academy Privatize 445 Units	1,4			
	Davis-Monthan AFB, AZ	1,256	961		05	Construction	Davis-Monthan AFB - Replace FH Ph 6				
Jul-07	Holloman AFB, NM	929	923	27.922	05	Construction	MacDill Replace FH Ph 6	1,4			
	ACC Group II Total:	2,185	1,884		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			
	Los Angeles AFB, CA	617	613		06	Improvement	Fort MacArthur - Improve 188 Units				
Sop 07	Peterson AFB, CO	493	669	10.045				2 4			
Sep-07	Schriever AFB, CO	0	242	19.945	06	Improvement	Peterson, Privatize 1,132 Units	2,4			
	Tri-Group Total:	1,110	1,524								
					06	Improvement	Bolling, Improve 24 Units				
	Barksdale AFB, LA	723	1,090		05	Improvement	Barksdale, Imp MFH PH 1				
Sep-07	Joint Base Anacostia-Bolling (Bolling), MD	1,343	672	15.231	05	Improvement	Langley, Improve Electrical System	1, 4			
	Joint Base Langley-Eustis (Langley), VA	1,496	1,430		03	Construction	Eglin, 234 MFH Ph 2A				
	BLB Total:	3,562	3,192		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			
	Columbus AFB, MS	517	453		06	Improvement	Andrews-Improve 178 Units				
	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				
Oct-07	Maxwell AFB, AL	723	501	59.000	03	Construction	Hurlburt, 134 MFH Ph 2A	2, 4			
	JBSA-Randolph, TX	397	317		03	Improvement	Eglin - Hurlburt 213 MFH Improvement				
	Vance AFB, OK	230	242								
	AETC Group II Total:	2,499	2,205								
Nov-07	Vandenberg AFB, CA	1,336	867	0.000	N/A	N/A	N/A	1,4			
	Andrews AFB, MD	1,466	933								
Nov-07	MacDill AFB, FL	752	572	0.000	N/A	N/A	N/A	2,4			
	AMC East Total:	2,218	1,505								
	Fairchild AFB, WA	1,055	641		04	Construction	Tinker, Privatize 730 MFH				
Jul 08	Tinker AFB, OK	694	660	28 100	04	Improvement	Sheppard, Privatize 1,288 Units	1 /			
Jui-00	Travis AFB, CA	1,094	1,134	20.190			FHIF Funds	1,4			
	AMC West Total:	2,843	2,435								

	Actual/Current ⁴								
Privatization	Project Name and/or	Units	End			Fund	ling Source ⁶	Authori-	
Date ¹	Installation/State ²	Conveyed ⁵	State Units ⁵	Amount (\$M)	Budget Year(s)	Туре	Project	ties ⁷	
	Hanscom AFB, MA	726	731		02	Improvement	Hickam - Privatize MFH		
	Little Rock AFB, AR	1,295	991		01	Improvement	Moody MFH Privatization		
Nov-08	Moody AFB, GA	303	287	15.723	01	Construction	Travis - Replace 64 Units	1,4	
	Patrick AFB, FL	991	616		00	Improvement	Little Rock - Privatize MFH		
	Falcon Group Total:	3,315	2,625						
					05	Improvement	Robins - Improve Family Housing		
Dec-08	Lackland AFB, TX (Ph II)	264	465	21.618	03	Improvement	Keesler - Replace 117 Ph 1	1,4	
					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	
	Arnold AFB, TN	40	22						
	Charleston AFB, SC	478	345						
Sep-11	Keesler AFB, MS	1,188	1,188	23.354	07	Construction	Mountain Home - Replace 457 MFH	1,4	
	Shaw AFB, SC	679	630						
	Southern Group Total:	2,385	2,185						
	Beale AFB, CA	683	509		07	Construction	Mountain Home - Replace 457 MFH		
	F.E. Warren AFB, WY	831	331 749		05	FHIF	Beale		
Mar-12	Malmstrom AFB, MT	1,168	1,116	20.053	04	FHIF	Beale	1,4	
	Whiteman AFB, MO	920	890		03	FHIF	Beale		
	Western Group Total:	3,602	3,264						
	Cannon AFB, NM	763	1,038						
	Cavalier AFB, ND	14	14						
	Ellsworth AFB, SD	283	497				Kadana Improva 614 MEU (Dh 0)		
Aug-13	Grand Forks AFB, ND	833	547	37.576	09	Improvement	Misawa - Improve 370 MEH (Ph 4)	1,4	
	Minot AFB, ND	1,746	1,606				wisawa - impiove 570 wi ii (i ii 4)		
	Mountain Home AFB, ID	956	844						
	Northern Group Total:	4,595	4,546						
	Edwards AFB, CA	741	741						
	Eglin AFB, FL	894	747						
	Eielson AFB, AK	934	898				Mountain Home - Replace 457 MFH	1, 4	
Son 12	Hurlburt AFB, FL	380	404	80.181	09	Improvement	Kadena - Improve 014 MFH (Ph 9) Vokota - Improve 350 MEH (Ph 7)		
Sep-15	McConnell AFB, KS	401	364				Misawa - Improve 370 MFH (Ph 4)		
	Seymour Johnson, NC	686	686						
	Continental Group Total:	4,036	3,840						

			Actual/Current ⁴							
Privatization	Project Name and/or	Units	End	Funding Source ⁶						
Date ¹	Installation/State ²	Conveyed ⁵	State Units ⁵	Amount (\$M)	Budget Year(s)	Туре	Project	ties′		
	Dyess AFB, TX (PH II) Moody	674	674				Vokota Improvo 250 MEH (Ph 7)			
Sep-13	AFB, GA (PH II)	0	101	6.315	09	Improvement	Misawa = Improve 370 MFH (Ph 4)	1,4		
	ACC Group III Total:	674	775				wisawa - inipioves /o wii ii (i ii 4)			
2010 (E)	2010 (E) Wright Dettersor AED OU (DU II)		30	20,800	03	FHIF	Wright-Patterson	3.4		
2019 (L)	wright-ratterson Arb, Off (rff ff)	100	50	20.800	16	Improvement	Kadena - Improve Infrastructure (Ph 4)	5,4		
	Grand Totals	60,300	53,269	632.133						

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"

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

MFH O&M		FY	2016	FY	2017	FY	FY 2018		
Country	Local Currency	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion		
Denmark	Krone	6.7523		6.7076	5	6.9385			
European Comm	Euro	0.9049	\$ 43,0	0.8990	\$ 50,147	0.9329	\$ 42,602		
Japan	Yen	121.8300	\$ 105,9	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	\$ 7,1	1151.5242	\$ 5,990	1156.12	\$ 7,201		
Turkey	Lira	2.8759	\$ 3,3	2.8346	5 \$ 7,702	3.4789	\$ 2,755		
United Kingdom	Pound	0.6505	\$ 30,3	0.6473	\$ \$ 34,230	0.8072	\$ 24,720		
Total			\$ 189,7	6	\$ 202,984		\$ 194,987		

MFH Construction		FY	2016	FY	2017	FY	2018
Country	Local Currency	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion
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