

Military Construction Program

Fiscal Year (FY) 2017 Budget Estimates

Justification Data Submitted to Congress February 2016

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DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION AND MILITARY FAMILY HOUSING FISCAL YEAR 2017 PROGRAM SUMMARY

	Authorization Request <u>(\$000)</u>	Appropriation Request <u>\$000)</u>
Military Construction		
Inside the United States	960,250	960,250
Outside the United States	347,226	347,226
Planning and Design (10 USC §2807)		143,582
Unspecified Minor Construction (10 USC §2805)		30,000
Total Military Construction	1,307,476	1,481,058
Military Family Housing		
New Construction	0	0
Improvements	56,984	56,984
Planning and Design	4,368	4,368
Subtotal	61,352	61,352
Operations, Utilities and Maintenance	212,090	212,090
Operations	89,380	89,380
Utilities	37,241	37,241
Maintenance	85,469	85,469
Privatization	41,809	41,809
Leasing	20,530	20,530
Subtotal	274,429	274,429
Reimbursement Request		5,715
Total Military Family Housing	335,781	341,496
Grand Total Air Force	1,643,257	1,822,554

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DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017 INDEX - INSIDE THE US (DOLLARS IN THOUSANDS)

			AUTHORIZATION	APPROPRIATION
STATE/COUNTRY	INSTALLATION	PROJECT	REQUEST	REQUEST
ALASKA	Clear	Fire Station	20,000	20,000
		Clear TOTAL:	20,000	20,000
	Eielson	F-35A ADAL FTD Facility	22,100	22,100
		F-35A Aircraft Weather Shelter (Sqd 1)	79,500	79,500
		F-35A Aircraft Weather Shelter (Sqd 2)	82,300	82,300
		F-35A Earth Covered Magazines	11,300	11,300
		F-35A Hangar/Propulsion MX/Dispatch	44,900	44,900
		F-35A Hangar/Squad Ops/AMU Sq #2	42,700	42,700
		F-35A Missile Maintenance Facility	12,800	12,800
		Eielson TOTAL:	295,600	295,600
	JB Elmendorf-Richardson	Add/Alter AWACS Alert Hangar	29,000	29,000
		JB Elmendorf-Richardson TOTAL:	29,000	29,000
		ALASKA TOTAL:	344,600	344,600
ARIZONA	Luke	F-35A Squad Ops/AMU #5	20,000	20,000
		Luke TOTAL:	20,000	20,000
		ARIZONA TOTAL:	20,000	20,000
CALIFORNIA	Edwards	Flightline Fire Station	24,000	24,000
		Edwards TOTAL:	24,000	24,000
		CALIFORNIA TOTAL:	24,000	24,000
	Pueldov	Small Arms Dange Complex	13 500	13 500
COLORADO	Бискіеу	Bueldow TOTAL	13,500	13,500
		COLORADO TOTAL:	13,500	13,500
DELAWARE	Dover	Aircraft Maintenance Hangar	39,000	39,000
		Dover TOTAL:	39,000	39,000
		DELAWARE TOTAL:	39,000	39,000
FLORIDA	Eglin	Advanced Munitions Technology Complex	75,000	75,000
		Flightline Fire Station	13,600	13,600
		Eglin TOTAL:	88,600	88,600
	Patrick	Fire/Crash Rescue Station	13,500	13,500
		Patrick TOTAL:	13,500	13,500
		FLORIDA TOTAL:	102,100	102,100
GEORGIA	Moody	Personnel Recovery 4-Bay Hangar/HMU	30,900	30,900
		Moody TOTAL:	30,900	30,900
		GEORGIA TOTAL:	30,900	30,900
KANSAS	McConnell	Air Traffic Control Tower	11,200	11,200
		KC-46A ADAL Taxiway Delta	5,600	5.600
		KC-46A Alter Flight Simulator Bldgs	3,000	3,000
		McConnell TOTAL:	19,800	19,800
		KANSAS TOTAL:	19,800	19,800
LOUISIANA	Barksdale	Consolidated Communication Facility	21.000	21.000
2001011111	2. ml hount	Rarksdale TOTAL	21,000	21,000
		LOUISIANA TOTAL:	21,000	21,000
MADAZI AND	TD Andresse	11 Deines Frankrad Fining P	13.000	13 000
MAKYLAND	JD Andrews	21 FOINTS Enclosed Firing Kange	13,000	13,000
		PAK Relocate JADUU Satellite Site	3,500	3,500
		JB Andrews TOTAL:	16,500	16,500
		MARYLAND TOTAL:	16,500	16,500

DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017 INDEX - INSIDE THE US (DOLLARS IN THOUSANDS)

			AUTHORIZATION	APPROPRIATION
STATE/COUNTRY		PROJECT	REQUEST	REQUEST
MASSACHUSETTS	Hanscom	System Management Engineering Facility	20,000	20,000
		Hanscom TOTAL:	20,000	20,000
		MASSACHUSETTS TOTAL:	20,000	20,000
MONTANA	Malmstrom	Relocate Missile Maintenance Facility	14,600	14,600
		Malmstrom TOTAL:		14,600
		MONTANA TOTAL:	14,600	14,600
NEVADA	Nellis	F-35A POL Fill Stand Addition	10,600	10,600
		Nellis TOTAL:	10,600	10,600
		NEVADA TOTAL:	10,600	10,600
NEW MEXICO	Cannon	North Fitness Center	21.000	21 000
NEW MERICO	Camion	Cannon TOTAL	21,000	21,000
	Holloman	Upgordous Corgo Dod and Taviway	10,600	21,000
	Honoman	Hollomon TOTAL	10,000	10,000
	Vintland	Honoman TOTAL:	7 200	7 200
	Kiruanu	Compat Rescue Hencopter Simulator	7,300	7,300
		KIFUANG TOTAL:	7,300	7,300
		NEW MEXICO IOTAL:	38,900	38,900
OHIO	Wright-Patterson	Relocate Entry Control Facility 26A	12,600	12.600
	···	Wright-Patterson TOTAL:	12,600	12,600
		OHIO TOTAL:	12,600	12,600
OVIAHOMA	Altac	VC 464 ETU/ETC Simulaton Easility Db 2	11 600	11 600
UKLAHUMA	Aitus	KC-40A F10/F1C Simulator Facility Fil 2	11,000	11,000
	T:	Allus IOTAL:	17,000	17,000
	1 mker	KC-40A Depot System Integration Laboratory	17,000	17,000
			17,000	17,000
		OKLAHOMA TOTAL:	28,000	28,000
TEXAS	JBSA - Lackland	BMT Recruit Dormitory 6	67,300	67,300
		JBSA - Lackland TOTAL:	67,300	67,300
		TEXAS TOTAL:	67,300	67,300
UTAH	Hill	649 MUNS Munitions Storage Magazines	6,600	6,600
		649 MUNS Precision Guided Missile MX Facility	8,700	8,700
		649 MUNS Stamp/M&I Facility	12,000	12,000
		Composite Aircraft Antenna Calibration Fac	7,100	7,100
		F-35A Munitions Mx Complex	10,100	10,100
		Hill TOTAL:	44,500	44,500
		UTAH TOTAL:	44,500	44,500
VIRGINIA	IR Langley-Fustis	Air Force Targeting Center	45 000	45 000
VIRONAA	3D Langicy-Lusus	Fuel System Maintenance Dock	14 200	14 200
		IR I angley-Fustic TOTAL	59,200	59 200
		VIRCINIA TOTAL	59,200	59,200
			00,000	0,100
WASHINGTON	Fairchild	Pipeline Dorm, USAF SERE School (150 RM)	27,000	27,000
		Fairchild TOTAL:	27,000	27,000
		WASHINGTON TOTAL:	27,000	27,000
WYOMING	FE Warren	Missile Transfer Facility Bldg 4331	5,550	5,550
		FE Warren TOTAL:	5,550	5,550
		WYOMING TOTAL:	5,550	5,550
		INSIDE THE US TOTAL:	960.250	960,250

DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017 INDEX - OUTSIDE THE US (DOLLARS IN THOUSANDS)

STATE/COUNTRY	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
AUSTRAILIA	RAAF Darwin	APR - Aircraft MX Support Facility	1,800	1,800
		APR - Expand Parking Apron	28,600	28,600
		RAAF Darwin TOTAL:	30,400	30,400
		AUSTRAILIA IOTAL:	50,400	30,400
COMMONWEALTH OF NORTHERN MARIANA				
ISLANDS	Unspecified	APR - Land Acquisition	9,000	9,000
		Unspecified TOTAL:	9,000	9,000
	COMMONWEA	LTH OF NORTHERN MARIANA ISLANDS TOTAL:	9,000	9,000
GERMANY	Ramstein	37 AS Squadron Operations/AMU	13,437	13,437
		Ramstein TOTAL:	13,437	13,437
	Spangdahlem AB	EIC - Site Development And Infrastructure	43,465	43,465
		Spangdahlem AB TOTAL:	43,465	43,465
		GERMANY TOTAL:	56,902	56,902
GUAM	JRM-Andersen	APR - Munitions Storage Igloos, Ph 2	35,300	35,300
		APR - SATCOM C4I Facility	14,200	14,200
		Block 40 Maintenance Hangar	31,158	31,158
		JRM-Andersen TOTAL:	80,658	80,658
		GUAM TOTAL:	80,658	80,658
JAPAN	Kadena	APR - Replace Munitions Structures	19.815	19,815
		Kadena TOTAL:	19,815	19,815
	Yokota	C-130J Corrosion Control Hangar	23,777	23,777
		Construct CATM Facility	8,243	8,243
		Yokota TOTAL:	32,020	32,020
		JAPAN TOTAL:	51,835	51,835
TURKEY	Incirlik	Airfield Fire/Crash Rescue Station	13,449	13,449
		Incirlik TOTAL:	13,449	13,449
		TURKEY TOTAL:	13,449	13,449
UNITED ARAB EMIRATES	Al Dhafra	Large Aircraft Maintenance Hangar	35 400	35 400
	in Dhuiru	Al Dhafra TOTAL:	35,400	35,400
		UNITED ARAB EMIRATES TOTAL:	35,400	35,400
			53 09 3	52,092
UNITED KINGDOM	KAF Croughton	JIAC Consolidation - Ph 3 Main Cata Complex	53,082	53,082
		RAF Croughton TOTAL:	69 582	69 582
		UNITED KINGDOM TOTAL:	69,582	69,582
		OUTSIDE THE US TOTAL:	347,226	347,226
WORLDWIDE UNSPECIFIED	Various Locations	Planning and Design	0	143 582
	Various Locations	Unspecified Minor Military Construction	0	30,000
		WORLDWIDE UNSPECIFIED TOTAL:	0	173,582
		INSIDE THE US TOTAL:	960,250	960,250
		OUTSIDE THE US TOTAL:	347,226	347,226
		WORLDWIDE UNSPECIFIED TOTAL:	0	173,582
		FY 2017 TOTAL:	1,307,476	1,481,058

Footnote: Military Construction, Air Force, Japan, Kadena Air Base, Munitions Storage

FY 2016 National Defense Authorization Act, Section 2301(b) erroneously listed the unclassified Munitions Storage in Section 4601 Funding Table under Air Force Worldwide Classified location, and in the corresponding funding table in the MilCon Appropriations Act Explanatory Statement.

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DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017 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.

	Authorization Request	Appropriation Request
<u>FY17</u>	<u>(\$000)</u>	<u>(\$000)</u>
NEW MISSION	743,782	743,782
CURRENT MISSION	563,694	563,694
PLANNING & DESIGN		143,582
MINOR CONSTRUCTION		<u>30,000</u>
TOTAL:	1,307,476	1,481,058

DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017 INDEX - CURRENT/NEW MISSION BREAKOUT (DOLLARS IN THOUSANDS)

			AUTH FOR	APPROPRIATION	
STATE/COUNTRY	INSTALLATION	PROJECT	APPROPRIATION	REQUEST	TYPE
ALASKA	Clear	Fire Station	20,000	20,000	CM
ALASKA	JB Elmendorf-Richardson	Add/Alter AWACS Alert Hangar	29,000	29,000	CM
CALIFORNIA	Edwards	Fire Station, Flightline	24,000	24,000	CM
COLORADO	Buckley	Small Arms Range Complex	13,500	13,500	CM
DELAWARE	Dover	Aircraft Maintenance Hangar	39,000	39,000	СМ
FLORIDA	Eglin	Flightline Fire Station	13,600	13,600	СМ
FLORIDA	Patrick	Fire/Crash Rescue Station	13,500	13,500	СМ
GEORGIA	Moody	Personnel Recovery 4-Bay Hangar/HMU	30,900	30,900	CM
GERMANY	Ramstein	37 AS Squadron Operations/AMU	13,437	13,437	CM
GUAM	JRM-Andersen	APR - Munitions Storage Igloos, Ph 2	35,300	35,300	СМ
JAPAN	Kadena	APR - Replace Munitions Structures	19,815	19,815	CM
JAPAN	Yokota	Construct CATM Facility	8,243	8,243	СМ
KANSAS	McConnell	Air Traffic Control Tower	11,200	11,200	СМ
LOUISIANA	Barksdale	Consolidated Communication Facility	21,000	21,000	CM
MARYLAND	JB Andrews	21 Points Enclosed Firing Range	13,000	13,000	CM
MASSACHUSETTS	Hanscom	System Management Engineering Facility	20,000	20,000	CM
MONTANA	Malmstrom	Relocate Missile Maintenance Facility	14,600	14,600	CM
NEW MEXICO	Cannon	North Fitness Center	21,000	21,000	CM
NEW MEXICO	Holloman	Hazardous Cargo Pad and Taxiway	10,600	10,600	CM
	wright-Patterson	Relocate Entry Control Facility 26A	12,600	12,600	CM
TEAAS	JBSA - Lackland	BM1 Recruit Dormitory 6	67,300	67,300	CM
IUKKEY	Incirlik	Airfield Fire/Crash Rescue Station	13,449	13,449	CM
UNITED ARAB EMIRATES	Al Dhafra	Large Aircraft Maintenance Hangar	35,400	35,400	CM
UNITED KINGDOM	RAF Croughton	Main Gate Complex	16,500	6,500	CM
VIRGINIA	JB Langley-Eustis	Fuel System Maintenance Dock	14,200	14,200	CM
WASHINGTON	Fairchild	Pipenne Dorm, USAF SERE School (150 RM)	27,000	27,000	CM
W YOMING	FE warren	Missue Transfer Facility Bldg 4331	5,550	5,550	СМ
		Current Mission TOTAL	563,694	563,694	
ALASKA	Eielson	F-35A ADAL FTD Facility	22,100	22,100	NM
ALASKA	Eielson	F-35A Aircraft Weather Shelter (Sqd 2)	82,300	82,300	NM
ALASKA	Eielson	F-35A Aircraft Weather Shelters (Sqd 1)	79,500	79,500	NM
ALASKA	Eielson	F-35A Earth Covered Magazines	11,300	11,300	NM
ALASKA	Eielson	F-35A Hangar/Propulsion MX/Dispatch	44,900	44,900	NM
ALASKA	Eielson	F-35A Hangar/Squad Ops/AMU Sq #2	42,700	42,700	NM
ALASKA	Eielson	F-35A Missile Maintenance Facility	12,800	12,800	NM
ARIZONA	Luke	F-35A Squad Ops/AMU #5	20,000	20,000	NM
AUSTRAILIA	RAAF Darwin	APR - Aircraft MX Support Facility	1,800	1,800	NM
AUSTRAILIA	RAAF Darwin	APR - Expand Parking Apron	28,600	28,600	NM
Commonwealth of Northern	Unspecified	APR - Land Acquisition	9 000	9.000	NM
Mariana Islands	Onspecificu	AI K - Laiu Acquisition	2,000	2,000	14141
FLORIDA	Eglin	Advanced Munitions Technology Complex	75,000	75,000	NM
GERMANY	Spangdahlem AB	EIC-Site Infrastructure	43,465	43,465	NM
GUAM	JRM-Andersen	APR - SATCOM C4I Facility	14,200	14,200	NM
GUAM	JRM-Andersen	Block 40 Maintenance Hangar	31,158	31,158	NM
JAPAN	Yokota	C-130J Corrosion Control Hangar	23,777	23,777	NM
KANSAS	McConnell	KC-46A ADAL Taxiway Delta	5,600	5,600	NM
KANSAS	McConnell	KC-46A Alter Flight Simulator Bldgs	3,000	3,000	NM
MARYLAND	JB-Andrews	PAR Relocate JADOC Satellite Site	3,500	3,500	NM
NEVADA	Nellis	F-35A POL Fill Stand Addition	10,600	10,600	NM
NEW MEXICO	Kirtland	CRH Simulator	7,300	7,300	NM
OKLAHOMA	Altus	KC-46A FTU/FTC Simulator Facility Ph 2	11,600	11,600	NM
OKLAHOMA	Tinker	KC-46A Depot System Integration Laboratory	17,000	17,000	NM
UNITED KINGDOM	RAF Croughton	JIAC Consolidation - Ph 3	53,082	53,082	NM
UTAH	Hill	649 MUNS Munitions Storage Magazines	6,600	6,600	NM
UTAH	Hill	649 MUNS Precision Guided Missile MX Facility	8,700	8,700	NM
UTAH	Hill	649 MUNS Stamp/M&I Facility	12,000	12,000	NM
UTAH	Hill	Composite Aircraft Antenna Calibration Fac	7,100	7,100	NM
UTAH	Hill	F-35A Munitions Mx Complex	10,100	10,100	NM
VIRGINIA	JB Langley-Eustis	Air Force Targeting Center	45,000	45,000	NM
		New Mission TOTAL	743,782	743,782	
WORLDWIDE UNSPECIFIED	Various Locations	Planning and Design	0	143,582	P&D
WORLDWIDE UNSPECIFIED	Various Locations	Unspecified Minor Military Construction	0	30,000	UMMC
		Central Program TOTAL	0	173,582	
		Active AF Program TOTAL	1,307,476	1,481,058	

DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017 INSTALLATION INDEX

INSTALLATION	COMMAND	STATE/COUNTRY	PAGE
AL DHAFRA	USAFE	UNITED ARAB EMIRATES	236
ALTUS	AETC	OKLAHOMA	136
BARKSDALE	AFGSC	LOUISIANA	96
BUCKLEY	AFSPC	COLORADO	61
CANNON	AFSOC	NEW MEXICO	119
CLEAR	AFSPC	ALASKA	21
DOVER	AMC	DELAWARE	65
EDWARDS	AFMC	CALIFORNIA	57
EGLIN	AFMC	FLORIDA	69
EIELSON	PACAF	ALASKA	25
FAIRCHILD	AMC	WASHINGTON	178
FE WARREN	AFGSC	WYOMING	182
HANSCOM	AFMC	MASSACHUSETTS	107
HILL	AFMC	UTAH	149
HOLLOMAN	ACC	NEW MEXICO	123
INCIRLIK	USAFE	TURKEY	232
JB ANDREWS	AFDW	MARYLAND	100
JB ELMENDORF-	PACAF	ALASKA	49
RICHARDSON			
JB LANGLEY-EUSTIS	ACC	VIRGINIA	169
JBSA - LACKLAND	AETC	TEXAS	144
JRM - ANDERSEN	PACAF	GUAM	208
KADENA	PACAF	JAPAN	219
KIRTLAND	AFMC	NEW MEXICO	127
LUKE	AETC	ARIZONA	53
MALMSTROM	AFGSC	MONTANA	111
MCCONNELL	AMC	KANSAS	86
MOODY	ACC	GEORGIA	81
NELLIS	ACC	NEVADA	115
PATRICK	AFSPC	FLORIDA	77
RAAF DARWIN	PACAF	AUSTRALIA	187
RAF CROUGHTON	USAFE	UNITED KINGDOM	241
RAMSTEIN	USAFE	GERMANY	198
SPANGDAHLEM	USAFE	GERMANY	203
TINKER	AFMC	OKLAHOMA	140
UNSPECIFIED	PACAF	COMMONWEALTH OF	194
		NORTHERN MARIANA	
WDICHT DATEDCON		ISLANDS	101
WKIGHI-PAITEKSUN			131
YUKUTA	PACAF	JAPAN	224

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DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017 SPECIAL PROGRAM CONSIDERATIONS

ECONOMIC CONSIDERATIONS

An economic evaluation has been accomplished for all projects costing over 2 million where viable options exist 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 2017 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 2017 CONGRESSIONAL REPORTING REQUIREMENTS

1. STATEMENTS ON NATO ELIGIBILITY

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

2. <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 2017 NON-MILCON FUNDING

Research and Development (RDT&E) <u>NONE</u>

DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017 APPROPRIATION SOUGHT FOR PREVIOUSLY AUTHORIZED PROJECTS

<u>NONE</u>

DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017 APPROPRIATIONS LANGUAGE

FY2017 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 \$1,481,058,000 to remain available until September 30, 2021: <u>Provided</u> that, of this amount, not to exceed \$143,582,000 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 therefor.

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1. COMPONENT AIR FORCE	F	FY 2017 MILITARY CONSTRUCTION PROGRAM					E (YYYMMDD) 20150911					
3. INSTALLATION AND LOCATION	4. COMMAND					5. ARE	A CONSTRUCTION					
CLEAR AIR FORCE BASE								COST INDEX				
ALASKA				AIR FO	IR FORCE SPACE COMMAND				2.44			
6. PERSONNEL	(1) F	PERMAN	IENT	(2)	STUDE	NTS	(3) \$	SUPPOR	RTED			
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL		
a. AS OF 30-Sep-15	4	6	59	0	0	0	15	92	120	296		
b. END FY 2021	4	7	27	0	0	0	15	92	120	265		
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE	11,438											
b. INVENTORY TOTAL AS OF	30-Sep-	15								622,774		
c. AUTHORIZATION NOT YET IN IN		RY								11,500		
d. AUTHORIZATION REQUESTED	IN THIS	PROGR	AM (FY	2017)						20,000		
e. PLANNED IN NEXT FOUR PROG	GRAM YE	EARS (F	Y 2018-I	FY 2021)						0		
f. REMAINING DEFICIENCY		- (- /						22,000		
g. GRAND TOTAL										676.274		
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY	2017)							,		
CATEGORY								СС	OST	DESIGN STATUS		
CODE PRO		TLE				SCO	OPE	(\$(000)	START COMPLETE		
730-142 Fire Station						1.920	SM	20	.000	Design Build		
						.,020	C.M.		,			
							TOTAL	20	.000			
9. FUTURE PROJECTS IN NEXT FO	UR PRO	GRAM	EARS	FY 2018	- FY 202	21)	-					
			- (/						
							τοται		0			
							IUIAL		Ū			
R&M UNFUNDED REQUIREMENT (\$	M)						τοται	2	.5			
	ini, IS						TOTAL					
Clear AES supports Active Air Force ar	nd Air Na	ational G	uard sna	ce warnii	na missia	ons The	13th an	d 213th	Snace W	arning Squadrons provide		
early warning of sea-launched and inte	rcontiner	ntal ballis	tic missi	les to NC	RAD's N	/lissile Co	orrelation	n Center	at Cheve	enne Mountain Air Force		
Station, CO. Space situational awaren	ess and	tactical v	varning o	of ballistic	missile	attacks a	against tl	ne U.S. a	and Cana	da is part of the Ballistic		
Missile Early Warning System.												
			CIENCI	C /EV O	017 - 201	21)						
TI. COTSTANDING FOLLOTION AN	D SAFL		CILINCI	-3 (112	017-202	- 1)						
a Air Pollution									0			
a. Air Pollution									0			
h Water Pollution									0			
b. water Poliution									U			
	4.								•			
c. Occupational Safety and Heal	th								U			
									•			
d. Other Environmental									U			
									U			
DD Form 1390, JUL 1999			PR	EVIOUS E	I NON IS	OBSOLE	: I E.					

1. COMPONENT		FY 2017 MTLTT	ARY CONSTRU	CTTON	PROJECT DA	ГА	2. DATE	
AIR FORCE	(computer generated)							
3. INSTALLATION. SITE AND LOCATION 4. PROJECT TITLE								
CLEAR AIR FORCE	CLEAR AIR FORCE STATION FIRE STATION							
CLEAR AIR FORCE STATION SITE # 1								
ALASKA								
5. PROGRAM ELEME	NT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT (COST (\$000)	
31476		730-142	1596	/DXEB0	53005	2	0,000	
		9. 0	OST ESTIMA	TES				
						UNIT	COST	
		ITEM		U/M	QUANTITY		(\$000)	
FIRE STATION							15,302	
FIRE STATION				SM	1,920	7,850	(15,072)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(230)	
SUPPORTING FACIL	ITIES			İ			1,820	
PAVEMENTS				LS			(200)	
UTILITIES				LS			(450)	
SITE IMPROVEMEN	TS			LS			(180)	
EMERGENCY GENER	ATOR			LS			(350)	
DEMOLITION				SM	562	694	(390)	
COMMUNICATIONS				LS			(250)	
SUBTOTAL						-	17,122	
CONTINGENCY ((5.0%)						856	
TOTAL CONTRACT CO	OST					-	17,978	
SUPERVISION, INS	PECTI	ON AND OVERHEAD	(6.5%)				1,169	
DESIGN/BUILD - D	ESIGN	COST (4.0% OF S	UBTOTAL)				685	
TOTAL REQUEST							19,832	
TOTAL REQUEST (R	OUNDEI)					20,000)	
EQUIPMENT FROM O	THER 2	APPROPRIATIONS (NON-	ADD)				(600	
10. Descriptio	on of	Proposed Construc	ction: Co	nstru	ct fire st	ation facili	lty	
consisting of a	a rei	nforced concrete f	Eoundation	with	slab on g	rade, concre	ete masonry	
walls with an e	exter	ior insulation fir	nish syste	m and	a standin	ng seam metal	roof.	
Project include	es io	ur (4) drive-throu	igh vehicl	e bay	s, alarm a	ind communica	ations	
functions Faci	20010] i +v	will be designed	ag a nerm	anent		ion in accord	dance with	
DoD Unified Fac	ilit	ies Criteria (UFC)	1-200-01	. Gen	eral Build	ling Require	ents and	
UFC 1-200-02, H	ligh	Performance and Su	ustainable	Buil	ding Requi	.rement. Con	nply with	
DoD minimum Ant	iter	rorism Standards f	Eor buildi	ngs p	er UFC 4-0	10-01. Potak	le water	
will be provide	ed th	rough a new buried	d concrete	util	idor. Sani	tary waste w	vill be	
provided with]	lift	station connected	to the ex	istin	g sewage s	system. Burie	ed	
electrical serv	vice	with a pad-mounted	l transfor	mer w	ill be pro	vided. Local	backup	
power is also i	inclu	ded with an arctic	c grade ge	nerat	or. Demol	ition 562 SN	1.	
11. Requirement	:: 19	20 SM Adequate:	: 0 SM	Subst	andard: 56	52 SM		
PROJECT: Const	ruct	Fire Station. (C	Current Mi	ssion	.).			
REQUIREMENT: 7	An en	ergy-efficient cor	nsolidatio	n of	Fire Stati	on, Security	/ Forces	
and Mission Sur	pport	runctions result	ing in the	redu	Clear Ort	ine active ba	ise	
	lower	associated operat	LING COSCS	(che	Crear Opt	.imizacion Pl	.a).	

Provide a properly sized and configured facility to support the fire department mission at Clear AFS, consisting of fire prevention and rescue activities to

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE FIRE STATION CLEAR AIR FORCE STATION CLEAR AIR FORCE STATION SITE # 1 ALASKA 5. PROGRAM ELEMENT 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) 6. CATEGORY CODE 31476 730-142 1596/DXEB053005 20,000

include adequate sleeping, kitchen/dining, and physical training areas.

<u>CURRENT SITUATION:</u> The Clear Fire Department occupies a 1961 structure, with numerous fire safety deficiency code (including FSDC 1s) and building code violations, that is too small to adequately support required functions. There is inadequate space to provide enclosed heated parking for essential response vehicles and it lacks a drive through capability required by current station design standards. There is inadequate space available for firefighting supplies, extinguisher maintenance, washers and dryers, fire fighter protective clothing and equipment, and other functions required per National Fire Protection Associations. Living quarters within the fire station exit directly into the vehicle stalls in direct violation of safety standards. The existing facility is not sprinkled. Firefighters are currently sleeping two to a room and sleeping rooms do not meet current size requirements. There is no space available for physical training area per UFC 4-730-10. Alteration is not feasible due to extensive structural problems and expansion of the existing fire station is not possible due to its proximity to other facilities.

<u>IMPACT IF NOT PROVIDED</u>: The fire station will continue to operate with many safety and building code violations and without adequate space to meet Air Force fire station standards. Maintenance of essential fire equipment will continue to be performed without adequate space or infrastructure resulting in more frequent replacement of equipment to ensure readiness for these personnel. Response times will be longer than necessary due to the lack of a consolidated vehicle and equipment storage center. Environmentally hazardous material spills will pose a greater threat to the area where Clear performs its mission as hazardous material response equipment is not continuously ready to respond quickly and must be collected from facilities in other parts of the installation.

<u>ADDITIONAL:</u> This project meets the scope/criteria specified in Air Force Manual 32-1084, "Facilities Requirements" and UFC 4-730-10 "Fire Station". A preliminary analysis of reasonable options (status quo, renovation, new construction) indicated only one option that would effectively meet functional requirements. Consequently, a full economic analysis was not performed. A certificate of exception has been prepared. Base Civil Engineer: Commercial (907) 585- 6421. Fire Station 1,920 SM = 20,667 SF.

	FY 2017 MILITARY ((comput	CONSTRU ter gen	CTION PRO erated)	OJECT	DATA	2. DATE			
CN AND L CE STATI	OCATION CON CON SITE # 1		4. PROJEC	CT TII TION	LE	1			
	_					/			
JEMENT	6. CATEGORY CODE	7. PR	OJECT NUM	IBER	8. PROJECT CO	JECT COST (\$000)			
	/30-142	1596	DXEB053	005	20,	,000			
NTAL DATA	A:								
ed Design	1 Data:	ogign b	uild prod	anduma					
	accomprished by d	esign-r	ulla proc	cedure	25				
tandard o here Des:	or Definitive Desig ign Was Most Recent	gn - :ly Use	d -			NO			
ther Des	ign Costs					1,000			
ruction	Contract Award					17 APR			
ruction	Start					17 MAY			
(6) Construction Completion 19 MA									
y Study/	Life-Cycle analysi	s was/w	vill be p	erfori	ned	YES			
I NOMENCI	PRO	CURING	APPRC .	FISCA APPROI OR RE(L YEAR PRIATED QUESTED	COST (\$000)			
ATIONS E	QUIPMENT	3080		2	018	350			
NGS		3400		2	018	250			
	CON AND I CE STATI CE STATI CE STATI CEMENT LEMENT NTAL DATA ad Design act to be standard of here Des: Other Des ruction ruction ruction ruction ruction T NOMENCI ATIONS EQ NGS	FY 2017 MILITARY (computed computed	FY 2017 MILITARY CONSTRU (computer gen CON AND LOCATION RCE STATION SITE # 1 CEMENT 6. CATEGORY CODE 730-142 7. PR 730-142 1596 NTAL DATA: 1596 NTAL DATA: 1596 NTAL DATA: 1596 Automatic to be accomplished by design-bill 1596 Sector Design Data: 1596 NTAL DATA: 1596 Automatic to be accomplished by design-bill 1596 Sector Design Data: 1596 Automatic to be accomplished by design-bill 1596 Sector Design Data: 1596 Sector Design Costs 1596 Sector Contract Award 1596 Sector Completion 1597 Sector Completion 1597 Sector Completion 1597 PROCURING 1600 PROCURING 1700 PROCURING 1000 NGS 3400	FY 2017 MILITARY CONSTRUCTION PRO (computer generated) CON AND LOCATION 4. PROJECT RCE STATION FIRE STATION RCE STATION SITE # 1 FIRE STATION LEMENT 6. CATEGORY CODE 7. PROJECT NUM 730-142 LEMENT 6. CATEGORY CODE 7. PROJECT NUM 730-142 NTAL DATA: ad Design Data: 1596/DXEB053 NTAL DATA: ad Design Data: - act to be accomplished by design-build pro - :: tandard or Definitive Design - here Design Costs - :ruction Contract Award - :ruction Completion - ry Study/Life-Cycle analysis was/will be p - nt associated with this project provided f - PROCURING APPRC T T NOMENCLATURE 3080 NGS 3400	FY 2017 MILITARY CONSTRUCTION PROJECT (computer generated) CON AND LOCATION 4. PROJECT TIT FIRE STATION ACCE STATION SITE # 1 FIRE STATION LEMENT 6. CATEGORY CODE 730-142 7. PROJECT NUMBER 1596/DXEB053005 NTAL DATA: ad Design Data:	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated) CON AND LOCATION CCE STATION RCE STATION SITE # 1 LEMENT 6. CATEGORY CODE 730-142 Construction 7. PROJECT NUMBER 1596/DXEB053005 LEMENT 6. CATEGORY CODE 730-142 LEMENT 730-142 LEMENT 700-142 LEMENT			

1. COMPONENT	F١	FY 2017 MILITARY CONSTRUCTION PROGRAM										
				1						20150911		
3. INSTALLATION AND LOCATION				4. CON	IMAND				5. AREA CONSTRUCTION			
EIELSON AIR FORCE BASE				PACIFIC	C AIR FC	RCES			cos			
ALASKA										2.3		
6. PERSONNEL	(1) P	PERMAN	ENT	(2) STUDENTS			(3) \$	SUPPOR	TED	TOTAL		
	OFFICER	ENLISTED	CIVILIAN	OFFICER	OFFICER ENLISTED CIVILIAN		OFFICER	ENLISTED	CIVILIAN		-	
a. AS OF 30-Sep-15	172	1707	404	4	21	0	163	654	137		3,262	
b. END FY 2021	189	2479	516	4	21	0	163	654	137		4,163	
7. INVENTORY DATA (\$000)	40 700											
	19,789										0 405 700	
	30-Sep-	15 DV									8,485,738	
C. AUTHORIZATION NOT YET IN IN		RY		0017)							45,000	
d. AUTHORIZATION REQUESTED				2017)							295,600	
e. PLANNED IN NEXT FOUR PROG	SRAM YE	ARS (F	Y 2018 -	- 2021)							50,000	
T. REMAINING DEFICIENCY											517,224	
g. GRAND TOTAL											9,393,562	
8. PROJECTS REQUESTED IN THIS	PROGR		2017)						от	DEGIO		
		EGORT				800			1001	DESIG	N STATUS	
CODE PRO		<u>ILC</u>				4 550		<u>(əu</u> 70	<u>500</u>	START		
141-181 F-35A Aircraft Weather She	elters (So	101) 10)				4,556	SIM	79,	200	06/15	09/16	
141-181 F-35A Aircrait Weather She	eiter (Squ	1 Z)				4,556	SIVI	82,	300	06/15	09/16	
171-618 F-35A ADAL FTD Facility	IV/Diana	1.a.b.			2,430 SM 22,				100	06/15	09/16	
211-111 F-35A Hangar/Propulsion N	AMU Sa	#2				3,046	SIVI	44,	900 700	06/15	09/16	
211-111 F-35A Hangar/Squad Ops/		#2				6,791	SIM	42,	700	06/15	09/16	
212-213 F-35A Missile Maintenance						4 007	SIM	12,	200	06/15	09/16	
422-264 F-35A Earth Covered Maga	azines					1,237		205	300	06/15	09/16	
		CDVW V		(EV 2018	EV 202	21)	TUTAL	295	,000			
821-117 Repair Central Heat/Power	Plant Bo			1 1 2010	-11202	. <i>1)</i> 120 000	IB	30	200			
821-117 Construct Southeast Heat	Plant		r			858	SM	10	800			
							TOTAL	50,	000			
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	37	7.6			
10. MISSION OR MAJOR FUNCTION Eielson AFB is home to the 354th Fight taking care of our people, their families mission support and medical groups, a	IS ter Wing. , and our s well as	Its miss infrastru 10 tenar	sion is to acture; it nt units,	o train, de is host to to include	liver, ma o an oper e Alaska'	intain, ar ations gr s Air Nat	nd suppo roup with ional Gu	ort comba an F-16 ard 168t	at power a Squadro h Refuelir	across the g on, and main ng Wing.	lobe while tenance,	
11. OUTSTANDING POLLUTION AN a. Air Pollution	D SAFE	TY DEFI	CIENCII	E S (FY 2	017 - 202	21)			0			
b. Water Pollution									0			
c. Occupational Safety and Heal	th								0			
d. Other Environmental									0			
							TOTAL		0			

DD Form 1390, JUL 1999

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT		FY 2017 MIL	TARY CONSTRU	CTION	PROJECT DA	2. DATE					
AIR FORCE			(computer ger	erate	d)						
3. INSTALLATION	, SITI	E AND LOCATION		4. PROJECT TITLE							
EIELSON AIR FOR	CE BA	SE		F-35#	ADAL FIELI	TRAINING DET	FACHMENT (FTD)				
EIELSON SITE #	1			FACII	JITY						
ALASKA		1									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT	COST (\$000)				
27142		171-618	1703/3	FTQW17	0100	2	2,100				
		9.	COST ESTIM	TES							
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)				
							(4000)				
PRIMARY FACILITI	EES						16,636				
RENOVATION OF 1	BLG 42	280		SM	390	2,679	(1,045)				
ADDITION TO BL	DG 428	30		SM	2,220	6,876	(15,265)				
SUSTAINABILITY	AND E	ENERGY MEASURES		LS			(326)				
SUPPORTING FACII	LITIES	5					3,122				
UTILITIES				LS			(281)				
PAVEMENTS				LS			(330)				
COMMUNICATIONS				LS			(250)				
ENVIRONMENTAL 1	REMEDI	LATION		LS			(150)				
ARCHEOLOGICAL 1	MONITO	ORING		LS			(75)				
SITE IMPROVMEN	TS			LS			(1,980)				
DEMOLITION				SM	180	310	(56)				
SUBTOTAL							19,757				
CONTINGENCY	(5	5.0%)					988				
TOTAL CONTRACT C	COST						20,745				
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				1,348				
TOTAL REQUEST						-	22,094				
TOTAL REQUEST (F	ROUNDE	D)					22,100				
EQUIPMENT FROM C	OTHER	APPROPRIATIONS (NON	I-ADD)				(3,030.0)				
10. Descripti Cast in place	LO. Description of Proposed Construction: Add to and alter (ADAL) Building 4280. Cast in place footing and foundation walls; exterior walls are split face CMU										

Cast in place footing and foundation walls; exterior walls are split face CMU utilized as a protective wainscot with insulated metal sandwich panels utilized above the wainscot. Insulated metal sandwich panels will be utilized above the second floor to match the existing building roof fascia panels. Sloped roof will be factory-finished, standing seam metal roofing with rigid insulation board. Flat roof areas will be steel decking on steel beam protected by a membrane roof assembly. The facility should be compatible with applicable DoD, Air Force, and base design standards. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 100 Tons

11. Requirement: 2610 SM Adequate: 0 SM Substandard: 570 SM PROJECT: ADAL Field Training Detachment Facility for F-35A beddown. (New Mission) REQUIREMENT: Eielson AFB is the preferred beddown alternative for the second Main Operating Base (MOB) for the F-35A aircraft. An adequate sized FTD is required to

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1. COMPONENT		FY 2017 MILI	TA	2. DATE							
AIR FORCE		(computer generated)									
3. INSTALLATION	E										
EIELSON AIR FOR	CHMENT (FTD)										
EIELSON SITE # 3	1										
ALASKA											
5. PROGRAM ELEM	ENT 6	5. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT COST (\$000)						
27142		171-618	1703/1	FTQW170100	22	,100					

support the maintenance training requirement for the F-35A beddown at Eielson AFB, AK. This project will renovate Building 4280 to include an addition to the existing facility to accommodate the field training requirement described in the F-35 Facility Requirements Document (FRD). The renovated facility will allow for training areas for instructor-led training, self-paced study via interactive workstations, and mock-ups of various F-35A components. The renovation and addition project will provide administrative offices, team meeting/conference rooms, student break room, and student workstations. Training rooms are required for F-35A maintenance training functions such as the Ejection Seat Mediated Training (EMST), Electronically Mediated Lectures (EML), Outer Mold Line (OML), Aerospace Ground Equipment (AGE)/Support Equipment (SE), F-135 engine maintenance, and other F-35A specific requirements.

CURRENT SITUATION: There is no existing F-35A Field Training Detachment facility at Eielson AFB. The facilities used to support the F-16 FTD unit operates in various locations on the base and on a space available basis. The F-16 FTD unit uses 164 SM (1,763 SF) out of the 2800 SM (30,266 SF) Bldg 1353 (Weapons Release System Shop). The area currently used for the F-16 FTD needs to be returned to support the other maintenance functions of the F-35. Bldg 4280 was a former flight simulator facility, currently used as multi-purpose storage and deployed forces staging area. The facility is in good structural condition with a high-bay configuration, thereby compatible to the unique ESMT high-bay height requirement for an F-35A FTD. However, the existing facility is too small to accommodate the rest of the training and administrative support areas required for the F-35A. Therefore, an addition to Bldg 4280 is needed to accommodate the total footprint of the FTD facility requirement.

IMPACT IF NOT PROVIDED: The F-35A FTD facility project is required to be in the FY17 program to support first aircraft arrival in 4th Qtr 2019. Training facilities are required to train maintenance personnel on how to service and maintain the F-35A. Maintainers require hands-on and classroom training to ensure proficiency in order to safely and efficiently maintain assigned aircraft. Properly trained maintainers are essential to home station aircraft operation as well as in deployed locations. The 354th FW (Eielson AFB) has insufficient facilities capable of supporting this training function. Lack of a training facility will have a negative impact on aircraft generation and readiness, directly supporting PACOM/PACAF's theater stability and postured for contingency objectives.

ADDITIONAL: This project meets the criteria/scope specified in AFM 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 mix of new construction and alteration to be the best solution. An Economic Analysis (EA) is being performed to verify the initial assessment result. Civil Engineer: (907) 377-5213 Field Training Detachment Facility: 2,610 SM = 28,098 SF

1. COMPONENT	FY 2017 MILI	TARY C	ONSTRUC	TION PROJECT	DATA	2. DATE				
AIR FORCE	(Compute	er gene.							
3. INSTALLATI	ON AND LOCATION			4. PROJECT	TITLE					
EIELSON AIR F	ORCE BASE			F-35A ADAL	FIELD TRAINING	DETACHMENT				
EIELSON SITE	# 1			(FTD) FACIL	ITY					
ALASKA					1					
5. PROGRAM EL	EMENT 6. CATEGORY	CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)				
27142	171-61	.8	1703/	FTQW170100	22,	100				
12. SUPPLEMEN	TAL DATA:									
a. Estimate										
(1) Statu										
(a) Da	-JUN-15									
(b) Pa	rametric Cost Estima	tes use	ed to de	evelop costs		YES				
* (c) Pe	ercent Complete as of	01 JAN	1 2016			15%				
* (d) Da	te 35% Designed				31	-MAR-16				
(e) Da	te Design Complete				30	-SEP-16				
(f) En	ergy Study/Life-Cycl	e analy	vsis was	s/will be per	formed	YES				
(2) Basis	•									
(2) Dubib (a) St	• andard or Definitive	Design	1 –			NO				
(b) Wh	ere Design Was Most	Recentl	y Used	-		110				
		、 、 、				(****				
(3) Total	Cost (c) = (a) + (b)) or (c	l) + (e) firstis	:		(\$000)				
(a) Pr	Oduction of Plans an	a speci	Ticatio	ons		1,326				
(C) A1	.i Other Design Costs Mal					1 989				
(d) (c)	ontract					1,658				
(e) In	-house					332				
(4) Const	ruction Contract Awa	rd				17 FEB				
(5) Const	ruction Start					17 MAR				
(6) Const	ruction Completion					20 MAR				
* Indicat	es completion of Pro	ject De	finitic	on with Para	metric Cost Es	timate				
which i	s comparable to trad	itional	. 35% de	esign to ensu	re valid scop	e,				
cost an	d executability.			-	-					
b. Equipmen	t associated with th	is pro	ject pro	ovided from a	other appropri	ations:				
EOUI PMEN'	NOMENCIATURE	P: APP	ROCURIN	FISC G APPRO TON OR RE	AL YEAR PRIATED COUESTED	COST (\$000)				
FIIDNITTII			3400		2019	520				
FORNITOR	E FIAIORES EQUIPMENI		3400	-		1 500				
COMMUNICA	2019	1,500								
AV EQUIPI	2019	1,000								

1. COMPONENT		FY 2017 MILI	TARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE			
AIR FORCE		(computer ger	erate	d)					
3. INSTALLATION	, SITI	E AND LOCATION		4. PR	OJECT TITL	Ξ				
EIELSON AIR FOR	CE BA	SE		F-35A AIRCRAFT WEATHER SHELTER SQD #1						
EIELSON SITE #	1									
ALASKA										
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT	NUMBER	8. PROJECT (COST (\$000)			
27142		141-181	1703/1	TQW17	0112	7	9,500			
		9.	COST ESTIM	TES	1					
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)			
PRIMARY FACILITI	ES						50,911			
F-35A AIRCRAFT	SHELT	TERS (141-181)		SM	7,189	6,943	(49,913)			
SUSTAINABILITY	AND B	ENERGY MEASURES		LS			(998)			
SUPPORTING FACII	ITIES						20,154			
SITE IMPROVEMEN	NTS			LS			(5,069)			
UTILITIES				LS			(12,694)			
PAVEMENTS				LS			(2,089)			
COMMUNICATIONS				LS			(77)			
ENVIRONMENTAL 1	REMEDI	IATION		LS			(150)			
ARCHEOLOGICAL I	MONITO	DRING		LS			(75)			
SUBTOTAL							71,065			
CONTINGENCY	(5	5.0%)					3,553			
TOTAL CONTRACT C	COST					-	74,619			
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				4,850			
TOTAL REQUEST						-	79,469			
TOTAL REQUEST (F	OUNDE	D)					79,500			
EQUIPMENT FROM C	THER	APPROPRIATIONS (NON	I-ADD)				(1,300.0)			
10. Descripti	on of	Proposed Constru	ction: Co	nstru	ct a 16-ba	y aircraft s	shelter			
with concrete	slab	foundation suppor	ted by pilo	es; e	xterior wa	lls are spl	it face CMU			
utilized as a	prote	ctive wainscot wi	th insulate	ed met	tal sandwi	.ch panels al	pove the			
wainscot; the	roof	assembly is steel	decking o	n stee	el beam pr	otected by a	a membrane			
root assembly.	wor	wedate the miggin	ing and su	rge pi	rotection,	and electr:	LCal			
aircraft_rated	nave	ments The facili	ty should l		mpatible w	ith applicat				
Air Force, and	base	design standards	s. The facil	litv 1	must also	be able to w	withstand			
wind loads, se	ismic	effects and arct	ic conditio	ons as	s prescrib	ed in appliq	cable codes			
and design gui	des.	Special foundation	ons are inc	luded	for arcti	c conditions	5.			
Facilities wil	l be	designed as perma	anent const:	ructio	on in acco	rdance with	the DoD			
Unified Facili	ties	Criteria (UFC) 1-	-200-01, Ge	neral	Building	Requirements	s and UFC			
1-200-02, High	Perf	ormance and Susta	inable Bui	lding	Requireme	ents. This p	roject will			
comply with Do	D ant	iterrorism/force	protection	requ	irements p	per UFC 4-010	0-01.			
Air Conditioni	Air Conditioning: 0 Tons									
11. Requiremen	t: 32	887 SM Adequat	e: 18108 SI	4 8	Substandar	d: 0 SM				
PROJECT: Cons	truct	F-35 Aircraft We	eather Shel	ter f	or the fir	st F-35A sq	uadron			
(Sqd#1). (New	Missi	lon)								
REQUIREMENT:	Eiels	on AFB is the pre	eferred alto	ernat:	ive to be	the second N	Main			
Operating Base	(MOE) stain	3) for the F-35A	aircraft.	The 1	16-Bay Air	craft Shelte	er is			
Lequired to Su	BLAIN	arrerare general	LIGH LALES (aur Tild	g COIG wea	icher, miciga				

1. COMPONENT		FY 2017 MIL	TA	2. DATE		
AIR FORCE			(computer ger	nerated)		
3. INSTALLATION	E					
EIELSON AIR FORCE BASE F-35A AIRCRAFT WEATHER SHELT						R SQD #1
EIELSON SITE #	1					
ALASKA						
5. PROGRAM ELEM	ENT 6. C	CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CC	OST (\$000)
27142		141-181	1703/1	FTQW170112	79	,500

impact of arctic weather on aircraft support equipment, and maintain overall fleet health. This facility combined with the existing shelters will provide required number of covered spaces to generate sorties for one squadron of aircraft. The facility includes 16 aircraft bays and two support cores containing a mechanical and fire protection room, tool room, electrical room, communications room, break room, latrines and janitor's closet. All supporting utilities such as the utilidor system to deliver required power, water, wastewater, and steam heat to the new facility especially during harsh arctic weather. Additionally, aircraft rated pavements are required to connect facility to existing taxiways and provide aircraft throughput. F-35A aircraft delivery is scheduled to begin in June 2019. CURRENT SITUATION: There are not enough adequate weather shelters to house all F-35 aircraft. Maintenance operations and aircraft generation are performed in temperatures as low as -50 degrees Fahrenheit. Maintainer productivity is reduced due to the demands of work/rest schedules in accordance with AFPAM 48-151. Aircraft Shelters are needed to protect maintainers from extreme cold conditions, reduce aircraft generation time and save maintenance hours by allowing crews to work in less harsh conditions. Aircraft support equipment issues are also a concern. The fuel in support equipment can thicken in cold weather, rendering the equipment nonoperational and losing valuable maintenance time. Additionally, aircraft require pre-heating in cold weather. Aircraft shelters eliminate the need for pre-heating, shortening aircraft generation times.

IMPACT IF NOT PROVIDED: Adequate facilities will not be available to perform essential daily periodic maintenance, repair, and sortie generation for the F-35A. Equipment and personnel will be exposed to extreme weather conditions, exposing aircraft to potential damage, degrading sortie generation rates and increasing manpower requirements. Critical combat training mission operations will be severely impacted.

ADDITIONAL: This project combined with FTQW183001: F-35A Aircraft Weather Shelter (Sqd #2) project will satisfy the total shelter requirement for the F-35 beddown. This project meets the applicable criteria/scope specified in the AFMAN 32-1084, Facility Requirements and was validated by the Lead Command. All known alternative options were considered during the development of this project. An analysis of reasonable options for accomplishing this project was completed, indicating new construction to be the best solution. An Economic Analysis (EA) is being performed to verify the initial assessment result. Base Civil Engineer: (907) 377-5213. Aircraft Shelters: 7,189 SM = 77,385 SF

1. COMPONENT AIR FORCE		FY 2017 MILITA	RY Co	ONSTRUC	TION I	PROJECT	DATA			2. DATE		
2 TNCTATIATT		OCATION			4			1				
EIELSON AIR F EIELSON SITE ALASKA	ORCE BAS	SE			4. PI F-352 #1	A AIRCRA	AFT W	EATHER	SH	ELTER SQD		
5. PROGRAM EL	EMENT	6. CATEGORY C	ODE	7. PRO	JECT 1	NUMBER	8. P	ROJECT	CC	ST (\$000)		
27142		141-181		1703/	FTQW1	70112			79,	500		
12. SUPPLEMEN	TAL DAT	A:					1					
a. Estimate	d Desig	n Data:										
(1) Statu	e.											
(1) Beace (a) Da	ite Desig	n Started							15	-JUN-15		
(b) Pa	rametrio	Cost Estimates	s use	ed to de	evelor	costs				YES		
* (c) Pe	ercent Co	omplete as of 01	L JAN	1 2016	-					15%		
* (d) Date 35% Designed										-MAR-16		
(e) Da	te Desig	gn Complete							30	-SEP-16		
(f) Er	ergy Stu	udy/Life-Cycle a	analy	vsis was	s/will	be per	form	ed		YES		
(2) Basis	:											
(a) St (b) Wh	andard o	or Definitive De	esigr Tentl	1 - V IIsed	_					NO		
(D) WI	lere Des.	Ign was most ket	Jenci	Ly Useu	_							
(3) Total	Cost (c	(a) = (a) + (b) c	or (d	l) + (e)	:					(\$000)		
(a) Pr	oduction	n of Plans and S	Speci	ficatio	ons					4,770		
(b) Al	l Other	Design Costs							2,385			
(c) To	otal								7,155			
(d) Co	ntract								5,963			
(e) Ir	1-house									1,193		
(4) Const	ruction	Contract Award								17 FEB		
(5) Const	ruction	Start								17 MAR		
(6) Const	ruction	Completion								20 MAR		
* Indicat which i cost an	es compl s compan d execut	letion of Projec rable to traditi rability.	ct De Lonal	efinitic . 35% de	on wit esign	h Param to ensu	netri nre va	c Cost alid so	Es Cop	timate e,		
b. Equipmer	nt associ	iated with this	pro	ject pro	ovided	l from c	other	approp	pri	ations:		
EQUIPMEN	I NOMENC	LATURE	P: APP	ROCURIN	g TION	FISCA APPRC OR RE	AL YE)PRIA SQUES	AR FED FED		COST (\$000)		
FURNISHI	NG FIXTU	RES EQUIPMENT		3400		2	2019			300		
COMMUNIC	ATION			3080		2	2019			1,000		

1. COMPONENT		FY 2017 MILI	TARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE			
AIR FORCE	R FORCE (computer generated)									
3. INSTALLATION	, SITI	E AND LOCATION		4. PR	OJECT TITL	Ξ				
EIELSON AIR FOR	CE BA	SE		F-35A	AIRCRAFT V	VEATHER SHELTH	ER SQD #2			
EIELSON SITE #	1									
ALASKA										
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PI	PROJECT NUMBER 8. PROJECT COST (\$000)						
27142		141-181	1703/1	TQW18	3001	8	2,300			
		9.	COST ESTIMA	TES						
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)			
PRIMARY FACILITI	ES						53,768			
F-35A AIRCRAFT	SHELT	TERS (141-181)		SM	7,590	6,943	(52,697)			
SUSTAINABILITY	AND B	ENERGY MEASURES		LS			(1,071)			
SUPPORTING FACII	LITIES						19,790			
SITE IMPROVEMEN	NTS			LS			(3,557)			
UTILITIES				LS			(6,114)			
PAVEMENTS				LS			(9,533)			
COMMUNICATIONS				LS			(77)			
WETLAND REMEDIA	ATION			LS			(284)			
ENVIRONMENTAL I	REMEDI	LATION		LS			(150)			
ARCHEOLOGICAL	MONTIC	JRING		12			(75)			
SUBTOTAL							73,558			
CONTINGENCY	5) 1005	.0%)				-	3,678			
CUDEDVICION INC	.051	ON AND OVERVEAD	(6 E%)				//,236 E.020			
TOTAL DECUERT	PECII	ON AND OVERHEAD	(0.5%)			-	92 257			
TOTAL REQUEST		(תי					82,257			
FOULTPMENT FROM (OUNDE	APPROPRIATIONS (NON	(ממג–ו				82,300 (1 300 0)			
10 Deggninti		Dropogod Constru	ation. Co							
with concrete	on or slab	foundation suppor	ted by pile	s: e	ct a 10-Da xterior wa	ly afforant : lls are spl	it face CMU			
utilized as a	prote	ctive wainscot wi	th insulate	ed me	tal sandwi	.ch panels a	bove the			
wainscot; the	roof	assembly is steel	l decking on	1 ste	el beam pr	otected by a	a membrane			
roof assembly.	Wor	k includes lightr	ning and sur	rge p	rotection,	and electr	ical			
grounding, to	accon	modate the missio	on of the fa	acili	ty to incl	ude utiliti	es and			
aircraft-rated	pave	ments. The facili	ity should l	be con	mpatible w	ith applical	ble DoD,			
Air Force, and	base	design standards	. The facil	lity 1	must also	be able to	withstand			
and design gui	lsmic	Special foundation	ons are inc	ons a: luded	for arcti	c condition	able codes			
Facilities wil	l be	designed as perma	anent consti	ructio	on in acco	ordance 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 p	roject will			
Dim Gardini	ant u	A mong	Protection	requ	rrements p	er urc 4-01	0-01.			
Air Conditioni	11 Deguirement, 2007 CM Adeguato, 19109 CM Cubstandard, 0 CM									
TT. REQUITEMEN		oor an Adequat	e: TOTAO 21	• i For +'	bo cocord	u. v om				
#2). (New Miss	ion)	aircrait weather	r sneiters :	cor t	ne second	squaaron of	т-32 (Sda			
REQUIREMENT:	Eiels	on AFB is the pre	eferred alte	ernat	ive to be	the second 1	Main			
Operating Base	(MOE	B) for the F-35A a	aircraft. 2	The 1	6-Bay Airc	raft Shelte	rs are			

1. COMPONENT		FY 2017 MIL	ITARY CONSTRU	JCTION PROJECT DA	ATA.	2. DATE				
AIR FORCE			(computer ger	nerated)						
3. INSTALLATION	, SITI	E AND LOCATION		4. PROJECT TITLE						
EIELSON AIR FOR	CE BA	SE		F-35A AIRCRAFT	WEATHER SHELTER	SQD #2				
EIELSON SITE #	1									
ALASKA										
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	D/PROJECT NUMBER 8. PROJECT COST (\$00						
27142		141-181	1703/3	1703/FTQW183001 82						

required to sustain aircraft generation rates and aid in the loading of live ordnance during cold weather, mitigate the impact of arctic weather on aircraft support equipment, and maintain overall fleet health. This facility combined with existing shelters will provide required number of covered spaces to generate sorties for one squadron of aircraft. The facility includes 16 aircraft bays and two support cores containing mechanical rooms, fire protection rooms, tool rooms, electrical room, communications equipment room, telecommunications room, break room, latrines and janitor's closet. All supporting utilities such as the utilidor system to deliver required power, water, wastewater, and steam heat to the new facility especially during harsh arctic weather. Additionally, aircraft rated pavements are required to connect facility to existing taxiways and provide aircraft throughput.

CURRENT SITUATION: There are no adequate weather shelters to accommodate the second squadron of F-35 and be able to load munitions. Maintenance operations and aircraft generation are performed in temperatures as low as -50 degrees Fahrenheit. Maintainer productivity is reduced due to the demands of work/rest schedules in accordance with AFPAM 48-151. Aircraft Shelters are needed to protect maintainers from extreme cold conditions, reduce aircraft generation time and save maintenance hours by allowing crews to work in less harsh conditions. Aircraft support equipment issues are also a concern. The fuel in support equipment can thicken in cold weather, rendering the equipment nonoperational and losing valuable maintenance time. Additionally, aircraft require pre-heating in cold weather. Aircraft shelters eliminate the need for pre-heating, shortening aircraft generation times. Finally, current live ordnance loading area is in the South Loop taxiway with no facility. Thereby, ordnance loading cannot be performed during arctic season, greatly reducing operational capability.

IMPACT IF NOT PROVIDED: Without this facility, maintainers will be unable to perform essential daily periodic maintenance and repair negatively impacting required sortie generation. Equipment and personnel will be exposed to extreme arctic conditions, exposing aircraft to potential damage and increasing manpower requirements. Critical combat training mission operations will be severely impacted. Munition loading to the aircraft cannot be safely performed, hampering aircraft operation during 6 months of extreme weather conditions.

ADDITIONAL: This project combined with FTQW170112: F-35A Aircraft Weather Shelter (Sqd #1) project will satisfy the total shelter requirement for the F-35 beddown. This project meets the applicable criteria/scope specified in the AFMAN 32-1084, Facility Requirements and was validated by the Lead Command. All known alternative options were considered during the development of this project. An analysis of reasonable options for accomplishing this project was completed, indicating new construction to be the best solution. An Economic Analysis (EA) is being performed to verify the initial assessment result. Base Civil Engineer: (907) 377-5213. Aircraft Shelters: 7,590 SM = 81,700 SF

1. COMPONENT		FY 2017 MILITA	RY C	ONSTRUC	TION PR	OJECT	DATA	_		2. DATE		
AIR FORCE		(60	mpute	er gene	rated)							
3. INSTALLATI	ON AND I	OCATION			4. PRO	JECT I	TTLE	:				
EIELSON AIR F EIELSON SITE ALASKA	ORCE BAS # 1	SE			F-35A . #2	AIRCRA	AFT W	EATHER	SH	ELTER SQD		
5. PROGRAM EI	EMENT	6. CATEGORY C	ODE	7. PRO	JECT NU	MBER	8. F	ROJECT	CO	ST (\$000)		
27142		141-181		1703/	FTQW183	8001			82,	300		
12. SUPPLEMEN	TAL DAT	A:										
a. Estimate	ed Design	n Data:										
(1) Statu												
(a) Da	te Desig	gn Started							15	-JUN-15		
(b) Pa	(b) Parametric Cost Estimates used to develop costs											
* (C) Pe	ercent Co	omplete as of 0	1 JAN	1 2016						15%		
* (d) Da	ate 35% 1	Designed							31	-MAR-16		
(e) Da	te Desig	gn Complete	_				_	_	30.	-SEP-16		
(f) Er	ergy Stu	udy/Life-Cycle a	analy	rsis was	s/will ł	be per	form	ed		YES		
(2) Basis												
(2) Eubic (a) St	andard d	or Definitive D	esiar	· -						NO		
(b) Wh	nere Des:	ign Was Most Re	centl	y Used	-					110		
(3) Total	. Cost (d	(a) = (a) + (b)	or (d) + (e)):					(\$000)		
(a) Pr	oduction	n of Plans and	Speci	ficatio	ons					1,097		
(b) Al	l Other	Design Costs							549			
(c) To	otal								1,646			
(d) Co	ontract									1,372		
(e) Ir	n-house								274			
(4) Const	ruction	Contract Award								17 FEB		
(5) Const	ruction	Start								17 FEB		
(6) Const	ruction	Completion								20 MAR		
* Indicat which i cost ar	es compi s compan d execut	letion of Project rable to tradit: tability.	ct De ional	finitic 35% de	on with esign to	Param o ensu	etri re v	c Cost alid so	Est	timate e,		
b. Equipmer	nt assoc:	iated with this	proj	ect pro	ovided f	Erom o	ther	approp	pria	ations:		
EQUIPMEN	I NOMENC	LATURE	P) APP	ROCURIN ROPRIAI	G LION	FISCA APPRO OR RE	AL YE PRIA QUES	AR TED TED		COST (\$000)		
FURNITUR	E FIXTUR	ES EQUIPMENT		3400		2	019			300		
COMMUNIC	ATTONS	-		3080		2	019			1,000		
COMMONIC	COMMUNICATIONS 5080 2019									1,000		
		EV 2017 MTL	TARY CONSTRU	CTTON		ጥል	2 DATE					
------------------	----------------	---------------------	---------------	--------------	---------------	---------------	---------------------					
AIR FORCE		FI 2017 MIH	(computer gen	erate	d)	.14	2. DATE					
3. INSTALLATION,	SITE	E AND LOCATION		4. PF	ROJECT TITL	3	I					
EIELSON AIR FORC	E BAS	SE		F-35A	A EARTH COVE	ERED MAGAZINE	IS					
EIELSON SITE # 1	-											
ALASKA												
5. PROGRAM ELEME	INT	6. CATEGORY CODE	7. RPSUID/PI	ROJECI	NUMBER	8. PROJECT	COST (\$000)					
27142		422-264	1703/1	TQW17	0113		11,300					
		9.	COST ESTIMA	TES	1		-					
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)					
PRIMARY FACILITI	ES						8,203					
EARTH COVERED M	AGAZI	NES (422-264)		SM	1,226	6,562	(8,045)					
SUSTAINABILITY	AND E	INERGY MEASURES		LS			(158)					
SUPPORTING FACIL	ITIES						1,867					
UTILITIES				LS			(183)					
PAVEMENTS				LS			(800)					
COMMUNICATIONS				LS			(184)					
SITE IMPROVEMEN	TS			LS			(400)					
ENVIRONMENTAL R	EMEDI	ATION		LS			(200)					
ARCHEOLOGICAL M	ONITC	DRING		LS			(100)					
SUBTOTAL							10,070					
CONTINGENCY	(5	.0%)					504					
TOTAL CONTRACT C	OST						10,574					
SUPERVISION, INS	PECTI	ON AND OVERHEAD	(6.5%)				687					
TOTAL REQUEST							11,261					
TOTAL REQUEST (R	OUNDE	D)					11,300					
EQUIPMENT FROM O	THER	APPROPRIATIONS (NON	I-ADD)				(30.0)					
10. Descriptio	on of	Proposed Constru	uction: Con	nstru	ct six ear	th covered	munition					
magazines to ac	comm	odate the mission	n of the fac	cilit	y. Constr	uction incl	Ludes					
precast reinfor	ced	concrete floor, w	walls, and o	ceili	ng, metal	blast doors	s (7 bar),					
earth-covered r	roofi	ng, concrete load	ding and un	Loadi	ng apron,	and lightni	ing					
protection syst	em.	Igloo doors will	be sized to	sup	port safe	loading and	i unloading					
of munitions. T	'he 1	gloo door track w	will be prov	/ided	with elec	tric resist	ance					
compatible with		licable DoD. Air	Force, and	base	design st	andards Th	ne facility					
must also be ab	le t	o withstand wind	loads and a	seism	ic effects	as prescri	ibed in					
applicable code	es an	d design guides.	Facilities	will	be design	ed as perma	anent					
construction in	acc	ordance with the	DoD Unified	l Fac	ilities Cr	iteria (UFC	2) 1-200-01,					
General Buildin	ng Re	quirements; UFC 1	L-200-02, H:	igh P	erformance	and Sustai	inable					
Building Requir	remen	ts; and the U.S.	Air Force 1	<i>iunit</i>	ions Facil	ities Stand	lards Guide,					
Volume 1, 31 Ma	iy 20 Jirom	04. This project	will comply	y wit.	h DoD antı	.terrorism/1	iorce					
procession requ	err en	O Mone	10-01.									
Air Conditionir	ig:		• 0 GM 4	luba+	andard. 47	77 CM						
DDOIEGT		of Romth Concern			$\frac{1}{2}$	// BM						
PROJECT: Const	ruct	six Earth Covere	ed magazine:	s (EC	ms). (New	MISSION)						
REQUIREMENT:	Eiel	son is the prefer	red alterna	ative	to bed do	wn the seco	ond Main					
operation stora	ige r	equirement. const	cruct six 80)-foo	t, standar	d design ea	and arth covered					
	<u> </u>											

1. COMPONENT	FY 2017 MIL:	ITARY CONSTRUCTION PROJECT DA	TA 2. DATE				
AIR FORCE	(computer generated)						
3. INSTALLATION	E						
EIELSON AIR FOR	CE BASE	F-35A EARTH COV	ERED MAGAZINES				
EIELSON SITE #	1						
ALASKA							
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)				
27142	422-264	1703/FTQW170113	11,300				

munition storage modules with door openings capable of safely storing the modern munitions carried by the F-35. This project supports the new mission beddown of the F-35A by providing the required munition storage. The igloos will have electric heating system to maintain required temperature for precision munitions storage. Based on the Corps of Engineers' standard design, the required area of each earthcovered magazine is 206 SM. In addition to the ECM, provide concrete pad for the loading and unloading of crated munitions. Special foundations are required to account for permafrost and areas of unstable soils. Security enhancements include an intrusion detection system.

CURRENT SITUATION: Eielson AFB's Quarry Hill munitions storage area contains 22 munitions storage igloos that were constructed in 1955/57. Current mission requirements use 90% of existing storage capacity. In addition, previous engineering analysis has determined that the underlying permafrost layer is melting, resulting in reduced structural integrity and soil settlements to the existing igloo foundations. As a result, many of the igloos' front retaining walls are failing, as evidenced by cracking and deflection. The igloos are experiencing differential settlement due to failing sub-grade material. Operationally, the existing igloos are undersized and lack adequate door width to allow the safe handling of larger F-35A munitions. Due to the lack of capacity and degraded condition of existing igloos, the F-35 munitions storage requirement is to build 6 ECMs at Quarry Hill munitions storage area.

IMPACT IF NOT PROVIDED: Eielson AFB's Quarry Hill munitions storage area will not have sufficient storage capability to support two squadrons of F-35A aircraft. Munitions storage personnel would be forced to use igloos that are deteriorated due to sloped floors and cracked wingwalls as an interim workaround. The igloos' inadequately sized doors would preclude the use and storage of certain types of munitions, since they are too large to be accommodated. The ECMs will provide the required munition storage for timely sortie requirement in support of PACAF's Power Projection and Theater Security line of operations to increase combat capability and readiness for contingency operations.

ADDITIONAL: This project meets applicable criteria/scope specified in AFM 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 new construction to be the best solution. An Economic Analysis (EA) is being performed to verify the initial assessment result. Base Civil Engineer: (907) 377-5213. Earth Covered Magazines: 1,226 SM = 13,197 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 2017 MILITARY	CONSTRUC	TION PROJECT	DATA	2. DATE			
AIR FORCE		(comp	iter gene	erated)					
3. INSTALLATI	ON AND I	OCATION		4. PROJECT	TITLE				
EIELSON AIR F	ORCE BAS	E		F-35A EARTH	COVERED MAGAZ	LINES			
EIELSON SITE	# 1								
ALASKA		1			1				
5. PROGRAM EL	EMENT	6. CATEGORY COD	E 7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)			
27142		422-264	1703	/FTQW170113	11,	300			
12. SUPPLEMEN	TAL DAT	A:							
a. Estimate	d Design	n Data:							
(1) Statu	IS:								
(a) Da	te Desig	gn Started			15	-JUN-15			
(b) Pa	rametri	c Cost Estimates ι	used to d	evelop costs		YES			
* (c) Pe	ercent Co	omplete as of 01 d	AN 2016			15%			
* (d) Da	te 35% 1	Designed			31	-MAR-16			
(e) Da	te Desig	gn Complete			30	-SEP-16			
(f) Er	ergy St	udy/Life-Cycle and	lysis wa	s/will be per	formed	YES			
(2) Basis	:								
(a) St	andard o	or Definitive Desi	.gn -			NO			
(b) Wh	(b) Where Design Was Most Recently Used -								
(3) Total	. Cost (d	(a) = (a) + (b) or	(d) + (e):		(\$000)			
(a) Pr	oduction	n of Plans and Spe	cificati	ons		339			
(b) Al	.1 Other	Design Costs				678			
(c) To	tal					1,017			
(d) Co	ntract					848			
(e) In	-house					170			
(4) Const	ruction	Contract Award				17 FEB			
(5) Const	ruction	Start				17 MAR			
(6) Const	ruction	Completion				19 SEP			
* Indicat	es compi	letion of Project	Definiti	on with Param	metric Cost Es	timate			
which i	.s compan	rable to tradition	al 35% d	esign to ensu	re valid scop	e,			
cost an	d execut	ability.							
b. Equipmer	t assoc	iated with this pr	oject pr	ovided from d	other appropri	ations:			
			סססס	FISC	AL YEAR	COST			
EQUIPMEN	I NOMENC	LATURE A	PROCORII	TION OR RE	EQUESTED	(\$000)			
COMMUNIC	ATION		3400	2	2018	30			

1. COMPONENT		FY 2017 MIL	TA	2. DATE			
AIR FORCE			(computer ger	erate	d)		
3. INSTALLATION	, SIT	E AND LOCATION		4. PROJECT TITLE			
EIELSON AIR FOR	CE BA	SE		F-35A HANGAR/PROPULSION MAINT/DISPATCH			
EIELSON SITE #	1						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT	COST (\$000)
07140			1				4
27142		211-111	1703/1	TQW17	0106	4	4,900
		9.	COST ESTIMA	TES			
ITEM				U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITY	C						23,033
MAINTENANCE HA	MAINTENANCE HANGAR (211-111)				1,932	7,337	(14,175)
PROPULSION MAINTENANCE (211-152)				SM	372	6,890	(2,563)
CORROSION CONTROL DISPATCH (211-159)				SM	848	6,890	(5,843)
SUSTAINABILITY AND ENERGY MEASURES				LS			(452)
SUPPORTING FACII	LITIES	5					17,107
UTILITIES				LS			(11,639)
PAVEMENTS				LS			(2,161)
SITE IMPROVEME	NTS			LS			(2,618)
COMMUNICATIONS				LS			(265)
WETLAND REMEDIA	ATION			LS			(199)
ENVIRONMENTAL	REMEDI	LATION		LS			(150)
ARCHEOLOGICAL 1	MONITO	ORING		LS			(75)
SUBTOTAL							40,140
CONTINGENCY	(5	5.0%)					2,007
TOTAL CONTRACT (COST						42,147
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				2,740
TOTAL REQUEST						-	44,887
TOTAL REQUEST (F	ROUNDE	D)					44,900
EQUIPMENT FROM (EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(1,600.0)
10. Descripti	on of	Proposed Constru	uction: Co	nstru	ct a 4-bay	F-35A Airc	raft

10. Description of Proposed Construction: Construct a 4-bay F-35A Aircraft Hangar/ Propulsion Maintenance/ Corrosion Control Dispatch facility with cast in place footing and foundation walls; rigid insulation will be utilized under the slab the thermally insulate the building from the ground. Exterior walls are split face CMU utilized as a protective wainscot with insulated metal sandwich panels utilized above the wainscot. The roof assembly is steel decking on steel beam protected by a membrane roof assembly. Hangar doors are insulated conventional biparting rolling hangar doors that operate independent of one another to allow for isolated bay openings. The Hangar door rails will be heated to prevent icing. The facility should be compatible with applicable DoD, Air Force, and base design standards. The facility must also be able to withstand wind loads, seismic effects, and arctic conditions 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: 52 Tons

11. Requirement: 3152 SM Adequate: 0 SM Substandard: 0 SM

1. COMPONENT		FY 2017 MILITARY CONSTRUCTION PROJECT DATA					
AIR FORCE			(computer gen	nerated)			
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE					E		
EIELSON AIR FORCE BASE F-35A HANGAR/PROPULSION MAINT					DISPATCH		
EIELSON SITE #	1						
ALASKA							
5. PROGRAM ELEM	ENT 6.	CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CO	OST (\$000)	
27142		211-111	1-111 1703/FTQW170106 4				

PROJECT: F-35A 4-Bay Hangar/Propulsion Maint/Dispatch. (New Mission)

REQUIREMENT: Eielson AFB is the preferred alternative to bed down the second Main Operating Base (MOB) for the F-35A aircraft. An adequately sized and configured combined consolidated 4-bay maintenance hangar, propulsion maintenance, and corrosion control dispatch is required to support beddown of the second 24 Primary Aircraft Assigned (PAA) squadron of F-35A fighters. The state-of-the-art technology and composite materials used to meet stealth mission criteria require specialized maintenance and repair procedure that must be accomplished in a secure, climate controlled work environment. Maintenance hangars provide space to support aircraft repair and inspection; engine changes, which require a minimum space of 85 ft x 55 ft; and other activities most efficiently done under cover. A propulsion maintenance area is required to perform unit-level off-equipment propulsion system maintenance. This space must be sized to accommodate alignment movement and stationary placement of propulsion maintenance trailers and allow sufficient clearances to perform maintenance. Unit level maintenance includes module and external components replacement capability post engine removal from aircraft. Dispatch/office space is required to support the personnel that will be assigned to corrosion control. Finally, all supporting utilities and infrastructure such as the utilidor system to deliver required power, water, wastewater, and steam heat to the new facility especially during harsh arctic weather. Additionally, aircraft and vehicle rated pavements are required to support the F-35 squadron maintenance operations.

CURRENT SITUATION: There are no existing facilities available and suitable for modification that can support the engine change requirement for new aircraft. This facility is essential to meet the base's full requirement for operation and aircraft maintenance. None of the existing facilities has a crane with the height necessary for propulsion system maintenance activities. The existing corrosion control facility, or other available facilities, do not have the shop space to support the corrosion support personnel.

IMPACT IF NOT PROVIDED: The 354th FW cannot sustain the FMC rates necessary to mobilize the aircraft to meet mission requirements. Without the hangar, engine removal/installation and effective engine maintenance cannot be performed, adversely impacting ability to mobilize strike aircraft quickly, safely, and effectively in response to operational requirements. Finally, the 354th FW will not be able to take delivery of the F-35A in any significant numbers to be effective in theater stability and contingency operations. The 354th FW has no maintenance facilities capable of supporting F-35 engine removal and installation. The hangar is required in FY17 to support first aircraft arrival in 2019.

ADDITIONAL: This project meets the applicable criteria/scope specified in the AFMAN 32-1084 Facility Requirements dated 20 April 2012 and the F-35 Lightening II Facilities Requirement Document. An analysis of reasonable options for accomplishing this project was completed indicating new construction to be the best solution. An Economic Analysis (EA) is being performed to verify the initial assessment result. Civil Engineer: (907) 377-5213. Hangar: 1,932 SM = 20,796 SF; Propulsion Maintenance: 372 SM = 4,004 SF; Dispatch: 848 SM = 9,128 SF.

JOINT USE CERTIFICATION:

1. COMPONENT		FY 2017 MILI	TARY CONSTRU	CTION PROJECT DA	TA	2. DATE
AIR FORCE		((computer ger	erated)		
3. INSTALLATION EIELSON AIR FOR EIELSON SITE # ALASKA	CE BA	E AND LOCATION SE		4. PROJECT TITL F-35A HANGAR/PRO	E DPULSION MAINT/	DISPATCH
5. PROGRAM ELEM	IENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CC	OST (\$000)
27142		211-111	1703/1	FTQW170106	44	,900
available" bas	sis; f	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
Requirements.						
DD FORM 1391.	DEC 9	9 Previo	us editions	are obsolete.	P	age No

1. COMPONENT		FY 2017 MILITARY	CONSTRU	CTION PROJECT	DATA	2. DATE	
AIR FORCE		(comp	outer gen	erated)			
3. INSTALLATI	ON AND I	OCATION		4. PROJECT	TITLE		
EIELSON AIR F EIELSON SITE ALASKA	ORCE BAS # 1	E		F-35A HANGA MAINT/DISPA	R/PROPULSION TCH		
5. PROGRAM EL	EMENT	6. CATEGORY COI	DE 7. PR	OJECT NUMBER	8. PROJECT CC)ST (\$000)	
27142		211-111	1703	/FTQW170106	44,	900	
12. SUPPLEMEN	TAL DATA	A:					
a. Estimate	d Design	n Data:					
(1) Statu	s:						
(a) Da	te Desig	n Started		. .	17	-JUN-15	
(b) Pa	rametric	Cost Estimates	used to a	levelop costs		YES	
* (C) Pe	rcent Co	omplete as or Ul	JAN 2016		21	15% NAD 16	
~ (u) Da	te Desi	n Complete			30	-MAR-10 -SFD-16	
(e) Da (f) En	lergy Sti	dv/Life-Cvcle an	alvsis wa	as/will be per	formed	YES	
	51						
(2) Basis	:						
(a) St	andard o	or Definitive Des	ign -	_		NO	
(b) Wh	ere Des:	ign Was Most Rece	ntly Used	1 -			
(3) Total	Cost (d	(a) = (a) + (b) or	(d) + (e	e):		(\$000)	
(a) Pr	oduction	n of Plans and Sp	ecificat:	lons		2,694	
(b) Al	1 Other	Design Costs				1,347	
(c) To	tal					4,041	
(d) Co	ntract					3,368	
(e) In	-house					674	
(4) Const	ruction	Contract Award				17 FEB	
(5) Const	ruction	Start				17 MAR	
(6) Const	ruction	Completion				20 MAR	
* Indicat which i	es compi s compan d execut	letion of Project able to traditio ability.	Definit: nal 35% d	ion with Paran lesign to ensu	netric Cost Es 1re valid scop	timate e,	
b. Equipmen	it assoc:	iated with this p	roject p	rovided from a	other appropri	ations:	
EQUIPMEN:	I NOMENC	LATURE	PROCURI APPROPRI	FISC NG APPRO ATION OR RE	AL YEAR DPRIATED EQUESTED	COST (\$000)	
FURNITURI	E FIXTUR	E EQUIPMENT	3400	:	2019	300	
COMMUNIC	ATIONS		3080	:	2019	900	
AV EQUIP	MENT		3400	:	2019	400	

1. COMPONENT		FY 2017 MIL	TA	2. DATE			
AIR FORCE			(computer ge	nerate	d)		
3. INSTALLATION	, SITI	E AND LOCATION		4. PI	ROJECT TITL	Ξ	•
EIELSON AIR FOR	CE BAS	SE		F-352	A HANGAR/SQU	JAD OPS/AMU SQ	D #2
EIELSON SITE #	1						
ALASKA		I	1				
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/1	PROJECT	NUMBER	8. PROJECT C	COST (\$000)
27142		211-111	1703/	FTQW17	0114	4	2,700
		9.	COST ESTIM	ATES			
						UNIT	COST
		ITEM		U/M	QUANTITY		(\$000)
HG, MAINT							32,686
MAINTENANCE HA	NGAR ((211-111)		SM	1,928	7,539	(14,535)
SQUADRON OPERATIONS (141-753)				SM	1,756	4,986	(8,755)
AIRCRAFT MAINTENANCE UNIT (211-154)				SM	1,752	4,997	(8,755)
SUSTAINABILITY AND ENERGY MEASURES				LS			(641)
SUPPORTING FACII	ITIES						5,511
UTILITIES				LS			(1,027)
PAVEMENTS				LS			(2,016)
SITE IMPROVEME	TS			LS			(1,917)
COMMUNICATIONS				LS			(265)
WETLAND REMEDIA	ATION			LS			(61)
ENVIRONMENTAL	REMEDI	TATION		LS			(150)
ARCHEOLOGICAL	MONITC	DRING		LS			(75)
SUBTOTAL							38,197
CONTINGENCY	(5	5.0%)					1,910
TOTAL CONTRACT (COST					-	40,107
SUPERVISION, INS	PECTI	ON AND OVERHEAD	(6.5%)				2,607
TOTAL REQUEST						-	42,714
TOTAL REQUEST (F	ROUNDE	D)					42,700
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							(4,300.0)

Hangar/ Squadron Operations (Squad Ops)/Aircraft Maintenance Unit (AMU) facility with reinforced concrete floor, walls, with ceiling, lightning and surge protection, and electrical grounding to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used when cost effective. The facility must also be able to withstand wind loads, seismic effects, and arctic conditions as prescribed in applicable codes and design guides. Special foundations are included for arctic conditions. 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: 160 Tons

11. Requirement: 5436 SM Adequate: SM Substandard: SM PROJECT: F-35A Hangar/Squad Ops/AMU. (New Mission) REQUIREMENT: Eielson AFB is the preferred alternative to bed down the second Main Operating Base (MOB) for the F-35A aircraft. An adequately sized and configured

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1. COMPONENT		FY 2017 MIL]	TA	2. DATE			
AIR FORCE							
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE				E			
EIELSON AIR FORCE BASE F-35A HANGAR/SQUAD OPS/AMU SQ					UAD OPS/AMU SQD	#2	
EIELSON SITE #	1						
ALASKA							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CC	OST (\$000)	
27142		211-111	1703/1	1703/FTQW170114 4			

combined maintenance hangar, squadron operations, and aircraft maintenance unit is required to support beddown of the F-35A Squadron. The Operations portion of the facility is required to support the operations squadron and contain space for flight planning, secure air crew briefing and de-briefing areas, and training and administration of the squadron. Space must be provided for the storage, care, and issue of flight crew life support system equipment and personal space is required for changing into and out of flight clothing. Flightline maintenance is responsible for launch, service, on-equipment repair, inspection and recovery of primary mission aircraft. This facility will provide adequate area for maintenance, a tool crib, ready room, equipment issue area, classified vault storage area, equipment, and administrative spaces required to support the aircraft and the Squadron 2 mission. The maintenance hangars to support F-35A aircraft must be designed to meet minimum 10 ft clearances from wings & nose to structure and 25ft from the tail to structure requiring a clear bay 97'-2" x 98'-4" for two aircraft. The hangar will provide 4 spaces for scheduled and unscheduled maintenance. Special foundations are required to accommodate arctic conditions. Finally, all supporting utilities and infrastructure such as the utilidor system to deliver required power, water, wastewater, and steam heat to the new facility especially during harsh arctic weather. Additionally, aircraft and vehicle rated pavements are required to support the maintenance and operation functions of the second F-35 squadron. CURRENT SITUATION: There are no hangar facilities to accommodate the second squadron of F-35 aircraft. Maintenance activities on legacy aircraft are primarily performed in weather shelters, which are of insufficient depth to perform maintenance on an F-35A. There are no other facilities available for this purpose.

This new facility is essential to meet the base's full requirement for operations and aircraft maintenance.

IMPACT IF NOT PROVIDED: This project is required to house the second F-35A squadron. Without a hangar/sqd ops/AMU, engine removal/installation and effective engine maintenance cannot be performed, adversely impacting ability to mobilize strike aircraft quickly, safely, and effectively in response to operational requirements. In addition, aircrew and supporting MX personnel will not have a facility to perform work required to operate the second squadron of F-35As. Eielson AFB has been identified as the preferred alternative for the 2nd operational location for the F-35A. First aircraft arrival for the second squadron is expected ~August 2020. Hangar/Sq Ops/AMU facility is required prior to arrival of the first aircraft of the second squadron.

ADDITIONAL: This project meets the criteria/scope specified in the F-35 Lightening II Facilities Requirement Document. An analysis of reasonable options for accomplishing this project was completed, indicating new construction to be the best solution. An Economic Analysis (EA) is being performed to verify the initial assessment result. Base Civil Engineer: (907) 377-5213. Hangar: 1,928 SM = 20,753 SF; Squadron Operations: 1,756 SM = 18,901 SF; Aircraft Maintenance Unit: 1,752 SM = 18,858 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

1. COMPONENT		FY 2017 MILI	TARY CONSTRU	CTION PROJECT DA	ТА	2. DATE
AIR FORCE		()	computer ger	erated)		
3. INSTALLATION	, SITE AND L	OCATION		4. PROJECT TITL	E	
EIELSON AIR FOR	CE BASE			F-35A HANGAR/SQU	JAD OPS/AMU SQD	#2
EIELSON SITE #	1					
ALASKA						am (\$000)
5. PROGRAM ELEM	ENT 6. CAT	EGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CC	ST (\$000)
27142	2	211-111	1703/1	FTQW170114	42	,700
Requirements.						
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1. COMPONENT		FY 2017 MILITA	RY CO	ONSTRUC	TION PRO	OJECT	DATA		2. DATE
AIR FORCE		(60	mpuce	er gene					
3. INSTALLATI	ON AND L	OCATION			4. PROU	JECT :	TITLE		
EIELSON AIR F EIELSON SITE ALASKA	ORCE BAS # 1	E			F-35A I	HANGAI	R/SQUAD OP	S/AM	IU SQD #2
5. PROGRAM EL	EMENT	6. CATEGORY C	ODE	7. PRO	JECT NUN	MBER	8. PROJEC	T CC	ST (\$000)
27142		211-111		1703/	FTQW170	114		42,	700
12. SUPPLEMEN	TAL DATA	A:					L		
a. Estimate	d Design	n Data:							
(1) Statu	IS:								
(a) Da	te Desig	n Started						15	-JUN-15
(b) Pa	rametrio	Cost Estimates	s use	d to de	evelop d	osts			YES
* (c) Pe	ercent Co	omplete as of 0	1 JAN	2016					15%
* (d) Da	te 35% I	Designed						31	-MAR-16
(e) Da	te Desig	gn Complete						30	-SEP-16
(f) Er	nergy Stu	udy/Life-Cycle	analy	sis was	s/will k	e per	formed		YES
(2) Basis									
(a) St	andard o	or Definitive De	esign						NO
(d) Wr	lere Desi	Ign was Most Re	centi	y Usea	-				
(3) Total	. Cost (c	(a) = (a) + (b)	or (d) + (e)):				(\$000)
(a) Pr	oduction	n of Plans and	Speci	ficatio	ons				2,562
(b) Al	1 Other	Design Costs							1,281
(c) To	tal								3,843
(d) Co	ntract								3,203
(e) In	-house								641
(4) Const	ruction	Contract Award							17 FEB
(5) Const	ruction	Start							17 MAR
(6) Const	ruction	Completion							20 MAR
* Indicat which i cost an	es compl s compar d execut	letion of Projectable to traditionation	ct De ional	finitic 35% de	on with esign to	Param ensu	etric Cost re valid :	t Es scop	timate e,
b. Equipmer	nt associ	iated with this	proj	ect pro	ovided f	irom c	ther appro	opri	ations:
EQUIPMEN	I NOMENC	LATURE	PI APP	ROCURIN ROPRIAI	G TION	FISCA APPRC OR RE	AL YEAR PRIATED QUESTED		COST (\$000)
FURNITUR	E FIXTUR	E & EQUIPMENT		3400		2	019		3,000
COMMUNIC	ATIONS			3080		2	019		800
AV FOUTD	MENT			3400		2	019		500

1. COMPONENT		FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE		(computer ge	nerate	d)					
3. INSTALLATION	, SIT	E AND LOCATION		4. PF	ROJECT TITL	Ξ	·			
EIELSON AIR FOR	CE BA	SE		F-354	MISSILE MA	AINTENANCE FA	CILITY			
EIELSON SITE #	1									
ALASKA		1								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT	COST (\$000)			
27142		212-213	1703/	FTQW17	0107	1	12,800			
		9.	COST ESTIM	ATES						
						UNIT	COST			
		ITEM		U/M	QUANTITY		(\$000)			
PRIMARY FACILITIES							7,893			
MISSILE MAINTE	NANCE	FACILITY (212-213)		SM	1,050	7,373	(7,742)			
SUSTAINABILITY	AND I	ENERGY MEASURES		LS			(151)			
SUPPORTING FACII	LITIES						3,510			
UTILITIES				LS			(900)			
PAVEMENTS				LS			(601)			
SITE IMPROVEMEN	NTS			LS			(1,300)			
COMMUNICATIONS				LS			(80)			
DEMOLITION				SM	530	338	(179)			
WETLANDS MITIG	ATION			LS			(200)			
ENVIRONMENTAL 1	REMEDI	LATION		LS			(175)			
ARCHEOLOGICAL I	MONITO	DRING		LS			(75)			
SUBTOTAL							11,403			
CONTINGENCY	(5	5.0%)					570			
TOTAL CONTRACT C	COST						11,973			
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				778			
TOTAL REQUEST							12,751			
TOTAL REQUEST (ROUNDED)							12,800			
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							(900.0)			

10. Description of Proposed Construction: Construct a missile maintenance facility with cast in place footing and foundation walls; exterior walls are split face CMU is utilized as a protective wainscot with insulated metal sandwich panels utilized above the wainscot. Missile holding areas will be cast in-place concrete walls covered with an EFIS system to mitigate heat loss through the concrete walls. The roof assembly is steel decking on steel beam protected by a membrane roof assembly. Project includes lightning and surge protection, electrical grounding, and concrete loading apron. This facility will require POV/GOV parking and supporting pavement for delivery vehicle throughput. Security enhancements include an intrusion detection and security fencing systems. All utility system needs to be protected from the arctic environment via a utiliduct system. Special foundation is required due the site being in a wetland area and to accommodate arctic conditions. The facility should be compatible with applicable DoD, Air Force, and base standards. 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. Demolish one facility for 530SM as part of this project. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

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1. COMPONENT		FY 2017 MILI	TARY CONSTRU	CTION PROJECT DA	TA	2. DATE		
AIR FORCE		((computer generated)					
3. INSTALLATION	, SITI	E AND LOCATION		4. PROJECT TITL	E			
EIELSON AIR FOR	CE BAS	SE		F-35A MISSILE MA	AINTENANCE FACI	LITY		
EIELSON SITE #	1							
ALASKA								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CC)ST (\$000)		
27142		212-213	1703/3	FTQW170107	12	,800		
Air Conditioni	ng:	50 Tons						
11. Requiremen	t: 10	50 SM Adequate	e: SM S	ubstandard: 530) SM			
PROJECT: Cons	truct	an F-35A Missile	e Maintenan	ce Facility. (1	New Mission)			
REOUIREMENT:	Eiels	on AFB is the pre	eferred alt	ernative to bed	down the sea	cond Main		
Operating Base	(MOB) for the $F-35A$ a	ircraft. C	onstruct a Miss	sile Maintenar			
Facility to su	+7000	missiles carried	1 bv F = 35A	aircraft. This	facility acco	ommodates		
missile and gl	ide m	unitions assembly	and disas	sembly inspecti	ion, testing.	and		
repair as per	AFMAN	32-1084. This fa	acility will	l consist of in	ndividual driv	ve-through		
work bays (4)	a va	ult maintenance b	pay, an adm	inistrative are	a for office	space		
with Arctic en	tranc	es, a tool room.	supply and	equipment stor	age, latrines	and an		
outdoor covere	d rea	dv missile holdir	ng area. Al	l bays will hav	ve roll-up do	ors sized		
to support ass	igned	missiles.			to rorr up do	JID DILOU		
	TON	Duilding 1202 w	a construct	had in 1060 ml	o huilding w			
dogigned ag a	10N: mu1+i	- gubo munitiong	as construc	red III 1962. II	he building wa			
for inort stor		Constructed durin	scorage mag	War ora Plda	1202 ig logat	isively		
the end of mun	age.	loom zono moguia	ig the cold	war era, blog	1303 IS IOCA			
Pldg 1202 ig i	way c	requir zone, requir	ling a walv	er from afrited	a Solution lit	Jeria.		
Therefore fur	n a v thor	invogtment ig not	warranted	given its loss	tion in the	loor gono		
and fagility g	ondit	ion Furthermore	the E-25	given its idea	acton in the c	iear zone		
is larger than	+he	evisting tagtigal	, che F-55 h	aintenande fadi	lance area rec	Auriemenic		
IMPACT IF NOT	PROVI	DED: The first H	-35A aircr	ait arrival exp	pected in July	7 2019.		
The Missile Ma	inter	ance Facility is	required t	o support the H	F-35A beddown	. If this		
project is not	prov	ided, the degrade	ed existing	facility will	continue to l	be used		
for missile ma	inter	ance. The additio	onal worklo	ad resulting fi	rom two F-35A	squadrons		
will be accomp	lishe	d in weapons bays	s that do n	ot meet current	t standards no	or have		
the required s	pace.	Airfield safety	criteria w	ill continue to	be violated	since		
these operatio	ns wi	.11 occur within t	che clear z	one. Munitions	safety will (Jontinue		
to be at risk	with	the continued det	cerioration	or the existin	ng facility, a	and the		
increased quan	tity	and type of munit	cions being	maintained and	assembled.	Vithout an		
adequate missi	ie ma	lintenance facilit	cy, mainten	ance personnel	will be unab.	Le to		
complete the 1	nspec	tion and maintena	ance or mis	siles that are	loaded on the	3 F-35AS.		
ADDITIONAL: T	his p	project meets the	criteria/s	cope specified	in AFM 32-10	34,		
Facility Requi	remen	its. All known alt	ternative o	ptions were con	nsidered duri	ng the		
development of	this	project. An anal	lysis of re	asonable option	ns for accomp	lishing		
this project w	as co	mpleted, indicati	ing new con	struction to be	e the best so	LUCION. An		
Economic Analy	sis (EA) 15 being peri	cormed to v	eriry the init:	lai assessment	t result.		
Base Civil Eng	ineer	(907) 377-5213	. Missile M	aintenance Faci	111ty: 1,050	5M =		
11,300 SF; Dem	oriti	.on: $530 \text{ SM} = 5,70$	JO SF.					
JOINT USE CERI	IFICA	TION: 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.								

1. COMPONENT		FY 2017 MILITA	RY CON	ISTRUC	TION PROJECT	DATA	2. DATE	
AIR FORCE	(computer generated)							
3. INSTALLATI	ON AND L	OCATION			4. PROJECT	TITLE		
EIELSON AIR F EIELSON SITE ALASKA	ORCE BAS # 1	SE			F-35A MISSI	LE MAINTENANCE	FACILITY	
5. PROGRAM EL	EMENT	6. CATEGORY C	ODE 7	. PRO	JECT NUMBER	8. PROJECT CO	ST (\$000)	
27142		212-213		1703/	FTQW170107	12,	800	
12. SUPPLEMEN	TAL DAT	A:	I					
a. Estimate	d Design	n Data:						
(1) Statu	ls:							
(a) Da	te Desig	gn Started				15	-JUN-15	
(b) Pa	rametrio	C Cost Estimates	s used	to de	evelop costs		YES	
* (c) Pe	ercent Co	omplete as of 01	1 JAN	2016			15%	
* (d) Da	te 35% I	Designed				31	-MAR-16	
(e) Da	te Desig	gn Complete	-			30	-SEP-16	
(f) En	lergy Sti	udy/Life-Cycle a	analys	is was	s/will be pe	rformed	YES	
(2) Basis	andard (or Definitive De	agian	_			NO	
(b) Wh	ere Desi	ign Was Most Red	cently	Used	-		NO	
(3) Total	. Cost (d	c) = (a) + (b) c	or (d)	+ (e)	:		(\$000)	
(a) Pr	oduction	n of Plans and S	Specif	icatio	ons		768	
(b) Al	l Other	Design Costs	-				384	
(c) To	otal						1,152	
(d) Co	ntract						960	
(e) In	-house						192	
(4) Const	ruction	Contract Award					17 FEB	
(5) Const	ruction	Start					17 MAR	
(6) Const	ruction	Completion					19 SEP	
* Indicat which i cost an b. Equipmen	es compl s compan id execut it associ	letion of Projec rable to traditi rability. iated with this	ct Def ional proje	initic 35% de ct pro	on with Para esign to ensu ovided from o	metric Cost Es ure valid scop other appropri	timate e, ations:	
					FTCC	AT VEAD		
EQUIPMEN	I NOMENC	LATURE	PR(APPR	OCURIN OPRIAI	G APPRO	OPRIATED EQUESTED	COST (\$000)	
COMMUNIC	ATION			3080	:	2018	300	
FURNISHI	NG, FIXT	URE, EQUIPMENT		3400	:	2018	600	
DD FORM 1391, I	DEC 99	Previou	s edit	ions a	are opsolete	. F	age No.	

	F	Y 2017 I	MILITA	RY CON	STRUC	TION P	ROGRA	M	2. DAT	E (YYYMMDD)	
			20150911								
3. INSTALLATION AND LOCATION				5. ARE							
JOINT BASE ELMENDORF-RICHARL ALASKA	SON			PACIFIC	C AIR FC	RCES			2.05		
6. PERSONNEL	(1) F	PERMAN	ENT	(2)	STUDE	ITS	(3) \$	SUPPOR	TED	τοται	
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL	
a. AS OF 30-Sep-15	777	4396	816	0	0	0	0	0	0	5,989	
b. END FY 2021	776	4389	836	0	0	0	0	0	0	6,001	
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE	77,996										
b. INVENTORY TOTAL AS OF	30-Sep-	15								8,800,000	
c. AUTHORIZATION NOT YET IN IN	IVENTO	RY								114,000	
d. AUTHORIZATION REQUESTED	IN THIS	PROGR	AM (FY	2017)						29,000	
e. PLANNED IN NEXT FOUR PROG	RAM YI	EARS (F	Y 2018-2	2021)						50,000	
f. REMAINING DEFICIENCY		·		,						218,900	
g. GRAND TOTAL										9,211,900	
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY)	2017)							-, ,	
	CAT	EGORY						CC	ST	DESIGN STATUS	
CODE PRO	JECT TI	TIF				SCO	OPF	(\$0	00)	START COMPLETE	
141-183 Add/Alter A	WACS	Alert Har	nar			8 384	SM	29	000	Design Build	
		Aicit I la	igai			0,004	0101	20,	000	Design Dulid	
							TOTAL	29,	000		
9. FUTURE PROJECTS IN NEXT FO	UR PRO	GRAM Y	EARS								
131-111 Consolidate Co	ommunio	cations Fa	acilities			5,975	SM	50,	000		
							TOTAL	50,	000		
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	1,9	945		
10. MISSION OR MAJOR FUNCTION					A A I	-1 41					
JBER is nome to the 3rd Wing (3WG),	HQ Alas	skan Com	imand, I	HQ U.S. /	Army Ala	ska, Alas	skan NO	RAD Re	gion, and	11th Air Force. Its	
training and readiness oversight respon	nance, w	for Arm	/ Force (Generatio	ombat s	uppontic skaltis	host to a	n operati	ions arou	in with squadrons of F-	
15C/D, F-3B, C-17, F-22A and C-12 at	rcraft, as	well as	15 tenar	ot units in	cludina th	ne Air Fo	rce Rese	erve's 47	7th Fight	er Group, among others.	
	,				j						
11. OUTSTANDING POLLUTION AN	D SAFE	TY DEFI	CIENCI	ES (FY 2)	017 - 202	21)					
a. Air Pollution								(C		
b. Water Pollution								()		
c. Occupational Safety and Heal	th							()		
d. Other Environmental								(C		
							τοται		0		
									-		

DD Form 1390, JUL 1999

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT		FY 2017 MIL	ITARY CONSTRU	CTION	PROJECT DA	TA	2. DATE				
AIR FORCE											
3. INSTALLATION	E AND LOCATION	4. PF	. PROJECT TITLE								
JOINT BASE ELMEN ELMENDORF AFB S ALASKA	JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AFB SITE #1 ALASKA					ADD/ALTER AWACS ALERT HANGAR					
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT	COST (\$000)				
27576		141-183	1821/1	7XSB98	2839	2	29,000				
		9.	COST ESTIMA	TES	1						
		ТТЕМ		U/M	OUANTITY	UNIT	COST				
	FC						21 166				
NERT CREW OFF		004 (141 450 141)	753)		1 090	3 950	21,100				
DENOVATE ALEDT	uanca	OPS (141-459, 141-	/53)	SM GM	£ 404	2 050	(13 128)				
SUSTAINABILITY	AND F	NERGY MEASURES		LS	0,101	2,050	(13,120)				
SUPPORTING FACTL							3 935				
CITE INDROVEMEN	TT 200			 T C			(1 000)				
PAVEMENTS	15			LS			(1,300)				
UTILITIES				LS			(1,535)				
CONNECTION CHAR	RGE TO	UTILITY PROVIDER		LS			(100)				
SUBTOTAL							25,101				
CONTINGENCY	(5	.0%)					1,255				
TOTAL CONTRACT C	OST					-	26,356				
SUPERVISION, INS	PECTI	ON AND OVERHEAD	(6.5%)				1,713				
TOTAL REQUEST							28,069				
TOTAL REQUEST (R	OUNDE	D)					29,000				
EQUIPMENT FROM O	THER	APPROPRIATIONS (NON	1-ADD)				(2,750.0)				
10. Description the AWACS alerd accommodate the applicable DoD and construction also be able to applicable code construction in General Building Building Require protection requ	EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) (2,750.0) 10. Description of Proposed Construction: Construct addition to and alteration of the AWACS alert hangar 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. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01										
11. Requirement	: 12	500 SM Adequat	te: 4116 SM	S	ubstandard	l: 6404 SM					
PROJECT: Add (Current Missie	& Alt on).	er Airborne Warn	ing and Con	trol	Systems (A	AWACS) Alert	Hangar				
REQUIREMENT: Due to Alaska winter weather and deicing times, alert aircraft must be housed inside to meet mission scramble requirements. To meet alert mission requirements aircraft maintenance, squadron operations and air crew quarters need to be located in the same facility. An upgrade to aircraft sheltering and maintenance hangar space as well as repairing and expanding existing squadron operations spaces and constructing missing AWACS alert crew quarters space is necessary for the 962nd Airborne Air Control Squadron (AACS) to fully accomplish its mission. Furthermore, additional squadron operations space is needed to meet											

FY 2017 MILITARY CONSTRUCTION PROJECT DATA

(computer generated)

4. PROJECT TITLE ADD/ALTER AWACS ALERT HANGAR

ELMENDORF AFB SITE #: ALASKA	1		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27576	141-183	1821/FXSB982839	29,000

the scheduled AWACS E-3G upgrade, which requires an additional 12 - 15 dedicated mission planning workstations.

CURRENT SITUATION: The current situation is that existing building number 14410, aka, Hangar 8, used for the AWACS, E-3 Specifications (707 Platform) aircraft maintenance and squadron operations is unsuitable for the 962nd AACS alert mission. Hangar 8 has insufficient space for squadron operations or to house alert crews, which significantly hinder the alert mission requirement. Currently only one AWACS E-3 crew can mission plan/brief at a time due to lack of suitable space. Often two AWACS missions are flown per day and the second mission is inevitably delayed in launching. Furthermore, the existing facility has insufficient space to accommodate the planned AWACS E-3G upgrade. Hangar 8 was built in the year 1957 and is in dire need of repairs and alterations to meet basic building systems and facility standards and thus is considered overly expensive to operate and maintain. IMPACT IF NOT PROVIDED: The impact if this project is not provided would be a significant reduction in readiness, and could result in mission degradation of operational capability and may increase the potential for a serious mishap. Other current mission impacts: 962 AACS mission statement includes supporting the North American Aerospace Defense Command (NORAD) commitment to defense of the Alaska Region IAW AFI 11-2E-3v3. With no alert facility E-3 crews are less likely to attain the current response time for take-off of the AWACS aircraft. The lack of alert crew quarters at the hangar and the shortage of squadron operations space will continue to have a significant negative impact on mission response times and work efficiencies if this project is not provided. ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". A preliminary economic analysis was performed comparing status quo, new construction, and add/alter, and add/alter was found to be most effective. A certificate of exception is being staffed for this project. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included

as Lump Sum in block 9 under supporting facilities as, "Connection charge to Utility Provider". Base Civil Engineer: 907-552-3747. Add Alert Crew Quarters/Squad Ops: 1,980 SM = 21,313 SF; Renovate Alert Hangar: 6,404 SM = 68,928 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

3. INSTALLATION, SITE AND LOCATION

JOINT BASE ELMENDORF-RICHARDSON

AIR FORCE

1. COMPONENT		FY 2017 MILITAR	Y CONSTRU	CTION PROJECT	' DATA	2. DATE				
AIR FORCE		(201	a project title							
3. INSTALLATI	ON AND I	JOCATION		4. PROJECT	TITLE					
JOINT BASE EL ELMENDORF AFB ALASKA	MENDORF- SITE #1	-RICHARDSON		ADD/ALTER A	WACS ALERT HAN	IGAR				
5. PROGRAM EL	EMENT	6. CATEGORY CC	DE 7. PR	OJECT NUMBER	8. PROJECT CO)ST (\$000)				
27576		141-183	182	L/FXSB982839	29,	,000				
12. SUPPLEMEN	TAL DATA	A:								
a. Estimate	d Design	n Data:								
(1) Statu	s:	m Startad			15	TIDI 1E				
(a) Da (b) Pa	rametri	gn Starteu 7 Cost Estimates	used to	develop costs	10	-JUN-15				
(D) Pe	rcent Co	omplete as of 01	TAN 2016			15%				
(d) Da	te 35% 1	Designed	0120 2020		31	-MAR-16				
(e) Da	te Desig	n Complete			30	-SEP-16				
(f) En	ergy Sti	udy/Life-Cycle a	nalysis w	as/will be pe	rformed	YES				
(2) Basis	:									
(a) St (b) Wh	andard d ere Des:	or Definitive De ign Was Most Rec	sign - ently Use	d -		NO				
(3) Total	Cost (d	c) = (a) + (b) oc	r (d) + (e):		(\$000)				
(a) Pr	oduction	n of Plans and S	pecificat	ions		0				
(b) Al	l Other	Design Costs				1,160				
(C) TC	tal					1,160				
(d) Co	ntract					0				
(e) In	-house					0				
(4) Const	ruction	Contract Award				17 FEB				
(5) Const	ruction	Start				17 MAR				
(6) Const	ruction	Completion				19 JUN				
* Indicat which i cost an b. Equipmen	es compl s compan d execut at assoc:	letion of Projec rable to traditi tability. iated with this	t Definit onal 35% project p	ion with Para design to ens rovided from	metric Cost Es ure valid scop other appropri	timate e, ations:				
EQUIPMEN	I NOMENC	LATURE	PROCURI APPROPRI	FISC ING APPRO ATION OR R	AL YEAR OPRIATED EQUESTED	COST (\$000)				
TEMPORARY	Y OPS SP	ACES	3400)	2017	2,000				
COMMUNIC	ATIONS E	QUIP	340)	2018	150				
FURNISHINGS 3400 2018 350										
EQUIPMEN:	г		3400)	2018	250				

	F	Y 2017 I	MILITA	RY CON	STRUC	TION P	ROGRA	M	2. DAT	E (YYYMMDD) 20150911
3 INSTALLATION AND LOCATION										
								<u>_</u>	D. ARE	
						N AND I	RAININ	G	000	0.08
	(1) 6			(2)	STUDEN	ITS	(2)		TED	0.90
0. FERSONNEL										TOTAL
a 48 OE 20 San 15	217	2077	040	110	627		024	6222	007	12 952
a. AS OF 30-369-15	200	2011	676	119	627	0	934	6222	907	12,000
	309	2004	070	119	027	0	934	0232	907	12,000
2. TOTAL ACREACE	2710									
	37 IU 20 Son	15								1 570 001
		DV								1/2 110
				2017)						20,000
				ZUII)	0					20,000
e. PLANNED IN NEXT FOUR PROC		-AK3 (/	1 2010 -	- F Y 202 I)					40,000
										1 911 241
9. GRAND TOTAL	DROCR		2017)							1,011,341
8. PROJECTS REQUESTED IN THIS	PROGR		2017)					~~~	NCT	
						800				DESIGN STATUS
CODE PRO	JECT II	ILE				<u> 300</u>		<u>(\$0</u>	<u>00)</u>	START COMPLETE
141-753 F-35A Squad Ops/AMO #5						3,962	SIVI	20,	000	Design Build
							TOTAL			
				(5)(0040	51/00/		TOTAL	20,	000	
9. FUTURE PROJECTS IN NEXT FO		GRAWI	EARS	FY 2018	- FY 202	(1)	CM	01	000	
211-154 F-35A ADAL AMU B914, S	Чb					4,519	SIVI	21,	000	
141-753 F-35A Squad Ops #6						1,914	SM	14,	000	
1/1-4/5 Construct Range and CAT	VI Facility	/				420	SM	11,	000	
							TOTAL	46,	000	
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	62	2.1	
10. MISSION OR MAJOR FUNCTION	IS									
LAFB is home to the largest fighter win	g in the l	JSAF, ar	nd it is th	e only ac	tive-duty	F-16/F-	35 trainir	ng base i	n the wor	rld. The host command is
the 56 FW under AETC. The Wing com squadrops (2 E-35 & 4 E-16) There are	prises to several	ur group I tenant u	S, The 50 Inits on b	oth Range	e Manage	ament O	TICE (RIV Fighter W	(IO), and /ind assi	24 squad	10th Air Force and Air
Force Reserve Command (AFRC), U.S	6. Marine	Corps (I	USMC) E	Bulk Fuel	Compar	v C. and	the U.S	5. Navv R	eserves.	
						. ,		,		
11. OUTSTANDING POLLUTION AN	D SAFE	TY DEFI	CIENCI	E S (FY 2	017 - FY	2021)				
a. Air Pollution								(C	
b. Water Pollution								(C	
c. Occupational Safety and Heal	th							(D	
d. Other Environmental								(C	
							TOTAL		0	
DD Form 1390			PR	EVIOUS F			TF			

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	OCTION	PROJECT DA	ТА	2. DATE	
AIR FORCE								
3. INSTALLATION	2							
LUKE AIR FORCE	BASE			F-35	SQUADRON OF	PERATIONS/AIR	CRAFT	
LUKE A F BASE S ARIZONA	ITE #	1		MAINI	ENANCE UNIT	5 #5		
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27597		141-753	2517,	/NUEX1	.33000		20,000	
		9. C	OST ESTIMA	TES				
		ITEM		∪/м	OUANTITY	UNIT	COST	
					20-21		(\$000)	
PRIMARY FACILIT	IES						12,786	
SQUADRON OPERA	TIONS/	AMU FACILITY (141-75	3)	SM	2,750	3,639	(10,007)	
RENOVATE B913	FOR AM	U SUPPORT (211-154)		SM	1,212	1,874	(2,271)	
COVERED OUTDOOD	R SPAC	E (452-252)		SM	319	804	(256)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(251)	
SUPPORTING FACIN	LITIES						4,677	
UTILITIES				LS			(799)	
SITE IMPROVEME	NTS			LS			(479)	
PAVEMENTS				LS			(1,818)	
ACCESS CONTROL				LS			(200)	
COMMUNICATION	REQUIR	EMENTS		LS			(284)	
AZ TRANSACTION	PRIVI	LEGE TAX (6%)		LS			(767)	
DEMOLITION/ENV	IRONME	NTAL REMEDIATION		SM	975	338	(330)	
SUBTOTAL							17,463	
CONTINGENCY	(5.0%))					873	
TOTAL CONTRACT (COST						18,336	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				1,045	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				699	
TOTAL REQUEST							20,079	
TOTAL REQUEST (1	ROUNDE	D)					20,000)	
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				(3,131	
10. Descripti	on of	Proposed Construc	ction: Bu	ild a	combined	Squadron Op	erations	
and AMU Admin	facil	ity. Work will in	nclude the	cons	truction of	of a sprinkl	er-equipped	
facility conta	ining	a steel-framed st	tructure,	concr	ete slab a	and foundati	on system,	
Support functi	ons.	Construct covered	anuing sea 1 outdoor	stora	de area.	Demolish or	e facility	
for 975 SM. I	'he fa	cilities will be d	lesigned a	s per	manent cor	struction i	.n	
accordance wit	h the	DoD Unified Facil	lities Cri	teria	(UFC) 1-2	200-01, Gene	ral	
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	sm/Force Pro	tection	
Requirements a	ls per	UFC 4-010-01.						
Air Conditioni	ng:	160 Tons	21.422	<i>a</i> 1				
11. Requiremen	ιτ: 35	Adequate:	31433	subs	tandard:	3962		
PROJECT: Cons	truct	an F-35A Squadror	n Operatio	ns/Ai	rcraft Mai	intenance Ur	it (AMU)	
(New Mission)								
required to su	ipport	the beddown of the	ne Joint S	ns an trike	Fighter ((JSF) F-35A	aircraft.	

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE LUKE AIR FORCE BASE F-35 SOUADRON OPERATIONS/AIRCRAFT LUKE A F BASE SITE # 1 MAINTENANCE UNIT #5 ARIZONA 5. PROGRAM ELEMENT 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) 6. CATEGORY CODE 27597 141-753 2517/NUEX133000 20,000

The Operations portion of the facility is required to support the operations squadron and contains the space for flight planning, secure air crew briefing and debriefing areas, and training and administration of the squadron. Space must be provided for the storage, care and issue of flight crew life support system equipment and personal space is required for changing into and out of flight clothing. Flightline maintenance is semi-autonomous and responsible for the launch, service, on-equipment repair, inspection and recovery of primary mission aircraft. This facility will provide adequate area for equipment and administrative spaces required to support the aircraft and the mission of the particular squadron. The renovation of B913 will provide spaces for maintenance, a tool crib, ready room, equipment issue area, classified vault storage area. Both facilities should be operational for the F-35A squadron arrival in March 2019.

<u>CURRENT SITUATION:</u> The base lacks adequate facilities to conduct and support squadron level maintenance and operations for the F-35A mission. The operational squadrons are required to work, train, deploy, and fight as independent squadrons. The current squadron operation and maintenance facilities are geographically separated and would prevent squadrons from training as a unit. Current squadron operations and aircraft maintenance units are undersized, in poor condition, do not contain enough secure space for pilot briefings and classified parts storage and are not configured properly for the JSF training needs.

<u>IMPACT IF NOT PROVIDED</u>: Without this project being funded and executed in 2017, the required maintenance and operations functions and personnel will not be operationally ready to receive an F-35A squadron in March of 2019. Work-arounds would not allow the squadron to train together and would significantly impact the training mission required to support the F-35A program at the Pilot Training Center.

ADDITIONAL: The scope and criteria for this project is contained in the Joint Strike Fighter Facility Requirements Document (FRD) developed by the Lockheed-Martin Aeronautics Company and the Eglin AFB design analysis and drawings for the JSF Squad Operations/AMU/Hangar facility. As a new weapon system, Air Force Manual 32-1084 does not adequately address the operational, training, and security requirements of the F-35A mission. An economic analysis of reasonable options comparing alternatives of status quo, renovation/reuse, addition/alteration, and new construction is being performed. Preliminary analysis indicates that a mix of new construction and renovation is the best alternative. An additional cost included in the project is an Arizona Transaction Privilege Tax of 6.2% that the State of Arizona charges all construction projects. Base Civil Engineer: (623)856-6135. Squadron Operations/AMU Admin: 2,750 SM = 29,999 SF; Covered Outdoor Storage: 319 SM = 3,434 SF. Renovation B913: 1,212 SM = 13,024SF

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.

. COMPONENT		FY 2017 MILITARY C	ONSTR	JCTION PRO	JECT	DATA	2	2. DATE
			er ge	lerated)				
3. INSTALLATI LUKE AIR FORC LUKE A F BASE ARIZONA	ON AND I E BASE SITE #	LOCATION		4. PROJEC F-35 SQUA MAINTENAN	CT TIT ADRON NCE UN	ILE OPERATIONS NIT #5	/AIRC	RAFT
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUM	IBER	8. PROJECT	COST	(\$000)
27597		141-753	251	7/NUEX133	000	:	20,00	0
2. SUPPLEMEN	NTAL DAT	A:						
a. Estimate	ed Design	n Data:						
(1) Proje	ct to be	accomplished by de	sign-	build pro	cedure	es		
(2) Basis (a) St (b) Wi	: candard o here Des	or Definitive Design ign Was Most Recent	n - Ly Use	ed -				NO
(3) All O	ther Des	ign Costs						840
(4) Const	ruction	Contract Award					17	FEB
(5) Const	ruction	Start					17	MAR
(6) Const	ruction	Completion					19	MAR
(7) Energ	y Study/	Life-Cycle analysis	was/	will be p	erfor	ned		YES
EQUIPMEN	NOMENC:	LATURE	URING	APPRC	OR RE	PRIATED QUESTED		(\$000)
COMMUNIC	ATIONS		308	0	2	018		500
AV EQUIP	MENT		340	0	2	018		400
FF&E			340	0	2	018		2,231

1. COMPONENT	E)	V 2047			etduc		BOCB		2. DAT	E (YYYMMDD)
AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM								20150911
3. INSTALLATION AND LOCATION				4. CON	IMAND				5. ARE	A CONSTRUCTION
EDWARDS AIR FORCE BASE						TERIEI	СОММА		COS	T INDEX
CALIFORNIA				/						1.27
6. PERSONNEL	(1) F	PERMAN	IENT	(2)	STUDE	ITS	(3) \$	SUPPOR	TED	TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-Sep-15	335	1013	3314				238	340	72	5,312
b. END FY 2021	334	1209	3194				240	331	70	5,378
7. INVENTORY DATA (\$000)		007.05								
	Acreage	e: 307,65	on Main	base: 30	07,517					F 440 400
b. INVENTORY TOTAL AS OF		-15 NDV								5,416,432
				(2017)						24.000
			KAIVI (F1 EV 2019	EV 2017)	1)					24,000
e. PLANNED IN NEXT FOUR PROV	GRAW I	EARS	-12010	- F Y 202	1)					0 85 000
										5 5 25 4 3 2
8 PRO JECTS REQUESTED IN THIS	PROGE	AW (EV	(2017)							J,JZJ,4JZ
			2017)					0	та	DESIGN STATUS
CODE PRO		TIF				SCO	OPF	(\$(START COMPLETE
130-142 FLIGHT LINE FIRE STATI						3 847	SM	24	000	Design Build
						0,011	Civi	<u> </u>	000	Doolgii Dalla
							TOTAL	24,	000	
9. FUTURE PROJECTS IN NEXT FO	OUR PRO	OGRAM	YEARS	(FY 2018	3 - FY 20	21)				
							TOTAL		0	
R&M UNFUNDED REQUIREMENT (\$	6M)						TOTAL	19	2.8	
10. MISSION OR MAJOR FUNCTION	NS									
Test, evaluate and develop weapon sy	ystems to	o deliver	war wini	ning capa	ability to	our natio	on's com	bat force	es. Air Fo	orce Flight Test Center
which is responsible for flight test active	vities for	all USAF	- aircraft	and related	ted avior	nics, fligh	nt control	l, and we	eapons sy	stems; a test wing; an air
base wing, All Force Test Fliot School	i, ine Fic	puision	Directore			e Resea	alch Lab	oratory, a	anu a spa	ace surveillance squadron.
11. OUTSTANDING POLLUTION AN	ND SAFE	ETY DEF	ICIENCI	ES (FY 2	2017 - F	(2021)				
a. Air Pollution									0	
									_	
b. Water Pollution									0	
									_	
c. Occupational Safety and Hea	lith								0	
									•	
d. Other Environmental									U	
									_	
					DITIO	00000	TOTAL		U	
			PRI	EVIOUS E	DITION IS	6 OBSOLI	ETE.			

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DA	ГА	2. DATE		
AIR FORCE		(computer generated)							
3. INSTALLATION	INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE								
EDWARDS AIR FOR	CE BAS	E		FLIGH	IT LINE FIRE	STATION			
EDWARDS AFB SIT	E # 1								
CALIFORNIA									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
72806		130-142	1684/	FSPM0	53503C		24,000		
		9. C	OST ESTIMA	TES					
		TTEM		TT /M	OUANTTTY	UNIT	COST		
		1154		0714	QUANIIII		(\$000)		
PRIMARY FACILIT	IES						17,372		
FLIGHT LINE FI	RE STA	TION (CAT CODE 130-1	.42)	SM	3,615	4,425	(15,996)		
CHEMICAL STORA	GE FAC	ILITY (CAT CODE 442-	628)	SM	232	4,552	(1,056)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(320)		
SUPPORTING FACI	LITIES						3,488		
STTE PREPARATT	ON			LS			(518)		
PAVEMENTS				LS			(1,450)		
UTILITIES				LS			(650)		
COMMUNICATION				LS			(300)		
BACKUP GENERAT	OR			LS			(125)		
DEMOLITION				SM	1,368	325	(445)		
SUBTOTAL						-	20.860		
CONTINCENCY	(5.0%						1 043		
TOTAL CONTRACT	(J.0%))				-	21 903		
CUDEDUICION INC		ON AND OVERVEAD	(E 7%)				1 249		
DESIGN/BUILD = 1	DESTON	COST (4.0% OF S)	(J. 7%)				2,240		
TOTAL REQUEST	010101		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			-	23,986		
TOTAL REQUEST (1	ROUNDE	ות					24 000 \		
EQUITEMENT FROM (OTHER	APPROPRIATIONS (NON-	(ממג				24,000)		
10 Deggripti		E Propogod Construe	ation. Co		 fagil	i+	(015		
conventional d	lesion	and construction	methods to		ct a facil commodate t	he fire sta	tion		
requirements.	The	facility should be	e compatib	le wi	th applica	ble DoD, AF	', and base		
design standar	ds.	In addition, local	l material	s and	construct	ion techniq	ues shall be		
used where cos	st eff	ective. Facilities	s will be d	desig	ned as a p	ermanent co	Instruction		
in accordance	with	DoD Unified Facili	ities Crit	eria	(UFC) 1-20	00-01, Gener	al Building		
Requirements a	ind UF	'C 1-200-02, High H	Performanc	e and	l Sustainat	ole Building			
A-010-01 Tro	lude	y with DOD minimum	antiterrani	orism	m thermal	epergy sto	ngs per UFC		
system and a p	arkin	g lot to accommoda	ate 50 spa	ces,	electronic	security sec	ensor		
vehicle gate,	site	preparations, util	lities, and	d all	other sup	porting fac	ilities.		
Demolish 1,368	SM.								
Air Conditioni	ng:	100 Tons							
11. Requirement	nt: 36	15 SM Adequates	: 0 SM	Subst	andard: 37	43 SM			
PROJECT: Flig	ht Li	ne Fire Station.	(Current	Missi	.on)				
REQUIREMENT:	A fun	ctionally efficien	nt facilit	y tha	t is adequ	ate in size	to house		
20 fire fighte	ers, t	heir equipment, an	nd vehicle	s is	required t	o meet Edwa	rds' fire		
fighting requi	remen	ts. Edwards' fire	/crash res	cue s	upport ext	ends to a m	ultitude of		
aircraft, such	as F	'-16, F-18, B-52, H	F-22, F-35	Join	t Strike F	ighter, NAS	A's 747, to		

DD FORM 1391, DEC 99 Previous editions are obsolete.

1. COMPONENT	FY 2017 MILITARY CONSTRU	2. DATE	
AIR FORCE	(computer gen		
3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TITLE	
EDWARDS AIR FOR	CE BASE	FLIGHT LINE FIRE STATION	
EDWARDS AFB SIT	E # 1		
CALIFORNIA			

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
72806	130-142	1684/FSPM053503C	24,000

include flight test of aircraft from commercial contactors like Boeing's 737-800 ,737- 900 series, to the latest 787-8 for performance to wet runway break testing. The F-35 JSF program supports multi force flight testing with the Navy, Marines, Danish and UK as-well-as the Air Force. The facility requires a kitchen with a walk-in cooler to support meal preparation for assigned personnel, requires adequate bunk room space to accommodate personnel lockers within the bunk rooms. The new facility requires an annunciating system and a fire protection system.

CURRENT SITUATION: The existing fire station is the primary fire station supporting airfield operations is over 50 years old and lacks adequate space in the sleeping areas. The facility has archaic infrastructure and lacks safe vehicle clearances. Modern fire department vehicles are much larger than older vehicles and do not fit safely in the existing vehicle parking bays. This facility has only one drive through vehicle stall; vehicles must be backed into the remaining stalls with only 6" of clearance on each side. A spotter is required as vehicles are "walked out" of parking bays, resulting in a 16 second delay during emergency responses, which increases the risk of loss of life or increased damage to high value aircraft. Vehicles are parked outside to reduce delays but this increases vehicle deterioration, leaving them vulnerable to freezing. Vehicles have experienced freeze damage 4 times in the last 3 years at an avg. cost of \$6K and 2.5 weeks of downtime per incident. Vehicles are parked in various hangars when space is available, but this increases response times by up to 9 minutes. The facility lacks an adequate fire system, and has been assigned a Fire Safety Deficiency (FSD) 1. The facility does not have a vehicle exhaust removal system, resulting in diesel fumes intruding into living spaces and bunk rooms. The air compressor used to fill self-contained breathing system tanks experiences frequent problems with the filters and high levels of carbon monoxide due to the lack of an exhaust removal system.

<u>IMPACT IF NOT PROVIDED</u>: Fire fighting vehicles will continue to be parked in substandard conditions, resulting in increased vehicle degradation and longer emergency responses times. Fire fighters will continue to live and work in a substandard facility, reducing readiness and impacting morale. Longer emergency response times increase risk for all airfield operations, with the potential for loss of life and/or damage to valuable one-of-a-kind and prototype aircraft. Damage to one of these aircraft can significantly impact test programs, resulting in higher costs and delays in delivering the weapon system to the war fighters. ADDITIONAL: This project complies with criteria specified in AFM 32-1084, "

Facility Requirements" and UFC 4-730-10, "Fire Station Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, add/alter, and status quo operations. New construction was found to be the most cost effective option. Base Civil Engineer: (661) 277-2910. Flight Line Fire Station: 3,615 SM = 38,920 SF; Chem Storage Bldg: 232 SM = 2,498 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.

. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated) 2. DATE 1 INSTALLATION AND LOCATION 4. PROJECT TITLE FLORT LINE FORCE BASE DWARDS AFE SITE # 1 ALIFORNIA 4. PROJECT TITLE FLORT LINE FIRE STATION . DECORAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 24,000 72806 130-142 1684/FSPM053503C 24,000 2. SUPPLEMENTAL DATA: . . . FROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 24,000 2. SUPPLEMENTAL DATA: Standard or Definitive Design - (b) Where Design Was Most Recently Used - (c) Standard conduct Award GO CONStruction Start . </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>1</th>							1
ER FORCE (computer generated) . INSTALLATION AND LOCATION 4. PROJECT TITLE WARDS AFB STEF # 1 FLIGHT LINE FIRE STATION DWARDS AFB SITE # 1 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 72806 130-142 1684/FSPM053503C 24,000 2. SUPPLEMENTAL DATA: a. Estimated Design Data: 11684/FSPM053503C 24,000 2. SUPPLEMENTAL DATA: a. Estimated Design Data: N0 N0 (a) Standard or Definitive Design - N0 N0 N0 (b) Mhere Design Was Most Recently Used - 1,200 1,200 (c) Construction Contract Award 17 FEB 1,200 (f) Construction Completion 19 APR 17 APR (f) Construction Completion 19 APR YES b. Equipment associated with this project provided from other appropriations: FISCAL YEAR EQUIPMENT NOMENCLATURE PROCURING APPRC FISCAL YEAR PUIDIMENT NOMENCLATURE 9400 2018 335 KITCHEN EQUIPMENT 3400 2018 50 DIGITAL CCTV SYSTEM 3400 2018 140 ONMUNICATIONS EQUIPMENT <t< td=""><td>1. COMPONENT</td><td></td><td>FY 2017 MILITARY (</td><td>CONSTRUCT</td><td>ION PROJECT</td><td>DATA</td><td>2. DATE</td></t<>	1. COMPONENT		FY 2017 MILITARY (CONSTRUCT	ION PROJECT	DATA	2. DATE
. INSTALLATION AND LOCATION DWARDS AIR FORCE BASE DWARDS AIR STRE # 1 ALIFORNIA . FROGRAM ELEMENT 6. CATEGORY CODE 72806 130-142 1684/FSPM053503C 24,000 2. 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 Costs 1.200 (4) Construction Contract Award (7) Energy Study/Life-Cycle analysis was/will be performed FURNISHINGS b. Equipment associated with this project provided from other appropriations: EQUIPMENT NOMENCLATURE FURCURING APPRC FURNISHINGS MICHEN EQUIPMENT 3400 2018 90 COMMUNICATIONS EQUIPMENT 3400 2018 140	AIR FORCE		(comput	er gener	ated)		
DWARDS AIR FORCE BASE DWARDS AFR SITE # 1 ALIFORNIA PROGRAM ELEMENT 5. CATEGORY CODE 72806 130-142 7. FROJECT NUMBER 8. FROJECT COST (\$000) 72806 2. 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 Costs 1,200 (4) Construction Contract Award 7. FRB (5) Construction Completion 19 APR (7) Energy Study/Life-Cycle analysis was/will be performed 7EGUL YEAR FROCURING AFPRC FISCAL YEAR COST CONTRUCTIONS SULTANDEN 8. FOOL YEAR COST CONTRUCTIONS SULTANDEN 8. FOOL YEAR COST CONTRUCTIONS SULTANDEN 8. FOOL YEAR COST 00 K REQUESTED 19 APR 10 COMMUNICATIONS EQUIPMENT 10 APR 10 COMMUNICATIONS EQUIPMENT 10 COMMUNICATIONS EQUIPMENT 11 COMMUNICATIONS EQUIPMENT 12 COMMUNICATIONS EQUIPMENT 13 ADD 13 COMMUNICATIONS EQUIPMENT 14 COMMUNICATIONS EQUIPMENT 14 COMMUNICATIONS EQUIPMENT 15 COMMUNICATIONS EQUIPMENT 15 COMMUNICATIONS 15 COMMUNICATIONS EQUIPMENT 15 COMMUNICATIONS 1	3. INSTALLATI	ON AND L	OCATION	4.	PROJECT TI	TLE	
ALTFORNIA PROGRAM SLEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 72806 130-142 1684/FSPM053503C 24,000 2. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Project to be accomplished by design-build procedures (2) Basis: (a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used - (3) All Other Design Costs 1,200 (4) Construction Contract Award 17 FEB (5) Construction Completion 19 APR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: EQUIPMENT NOMENCLATURE PROCURING APPRC APPROPRIATED COST EQUIPMENT NOMENCLATURE 3400 2018 335 KITCHEN EQUIPMENT 3400 2018 300 COMMUNICATIONS EQUIPMENT 3400 2018 140	EDWARDS AIR F	ORCE BAS	E	FI	IGHT LINE F	IRE STATION	
PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 72806 130-142 1684/FSPM053503C 24,000 2. SUPPLEMENTAL DATA: . . . a. Estimated Design Data:	EDWARDS AFE S CALIFORNIA	116 # 1					
72806 130-142 1684/FSPM053503C 24,000 2. 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 Costs . . . (3) All Other Design Costs . . . (5) Construction Contract Award . . . (6) Construction Completion (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: . EQUIPMENT NOMENCLATURE . . . FURNISTINGS 3400 . . N000 DIGITAL CCTV SYSTEM ON MUNICATIONS EQUIPMENT 	5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PROJ	ECT NUMBER	8. PROJECT CO	DST (\$000)
<pre>2. SUPPLEMENTAL DATA: a. Estinated 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 - (c) Where Design Costs 1,200 (4) Construction Contract Award 17 FEB (5) Construction Start 17 APR (6) Construction Completion 19 APR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: Equipment associated with this project provided from other appropriations: FURDING APPRC APPROPRIATED (\$000 FURDINISHINGS 3400 2018 355 DIGITAL CCTV SYSTEM 3400 2018 50 DIGITAL CCTV SYSTEM 3400 2018 140</pre>	72806		130-142	1684/F	SPM053503C	24,	,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 1,200 (4) Construction Contract Award 17 FEB (5) Construction Start (7) Energy Study/Life-Cycle analysis was/will be performed (7) Energy Study/Life-Cycle analysis was/will be performed (7) Energy Study/Life-Cycle analysis was/will be performed (7) Energy Study/Life-Cycle analysis was/will be performed (8) Construction Completion (7) Energy Study/Life-Cycle analysis was/will be performed (8) Construction Completion (8) Construction C	12. SUPPLEMEN	ITAL DAT	\ :				
<pre>(1) Project to be accomplished by design-build procedures (2) Basis: (a) Standard or Definitive Design - N0 (b) Where Design Was Most Recently Used - (3) All Other Design Costs 1,200 (4) Construction Contract Award 17 FEB (5) Construction Start 17 APR (6) Construction Completion 19 APR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: FROCURING APPRC APPROPRIATED COST EQUIPMENT NOMENCLATURE FROCURING APPRC OR REQUESTED (\$000 FURNISHINGS 3400 2018 335 KITCHEN EQUIPMENT 3400 2018 50 DIGITAL CCTV SYSTEM 3400 2018 140 COMMUNICATIONS EQUIPMENT 3400 2018 140 </pre>	a. Estimate	d Design	Data:				
(2) Basis: (a) Standard or Definitive Design - (b) Where Design Was Most Recently Used - (c) Where Design Costs 1,200 (d) Construction Contract Award 17 FEB (5) Construction Start 17 APR (6) Construction Completion 19 APR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: EQUIPMENT NOMENCLATURE FROCURING APPRC APPROPRIATED (\$000 FURNISHINGS 3400 2018 335 KITCHEN EQUIPMENT 3400 2018 50 DIGITAL CCTV SYSTEM 3400 2018 90 COMMUNICATIONS EQUIPMENT 3400 2018 140	(1) Proje	ct to be	accomplished by de	esign-bui	ld procedur	es	
(a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used -	(2) Basis	:					
(3) All Other Design Costs 1,200 (4) Construction Contract Award 17 FEB (5) Construction Start 17 APR (6) Construction Completion 19 APR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: YES EQUIPMENT NOMENCLATURE PROCURING APPRC PISCAL YEAR APPROPRIATED OR REQUESTED COST (\$000 FURNISHINGS 3400 2018 335 KITCHEN EQUIPMENT 3400 2018 90 COMMUNICATIONS EQUIPMENT 3400 2018 140	(a) St (b) Wh	andard o here Desi	or Definitive Desig .gn Was Most Recent	n - ly Used	-		NO
(4) Construction Contract Award 17 FEB (5) Construction Start 17 APR (6) Construction Completion 19 APR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: PROCURING APPRC EQUIPMENT NOMENCLATURE PROCURING APPRC FISCAL YEAR APPROPRIATED COST FURNISHINGS 3400 2018 335 KITCHEN EQUIPMENT 3400 2018 90 COMMUNICATIONS EQUIPMENT 3400 2018 140	(3) All O	ther Des	ign Costs				1,200
(5) Construction Start 17 APR (6) Construction Completion 19 APR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: YES EQUIPMENT NOMENCLATURE PROCURING APPRC FISCAL YEAR APPROPRIATED OR REQUESTED COST (\$000 FURNISHINGS 3400 2018 335 KITCHEN EQUIPMENT 3400 2018 90 COMMUNICATIONS EQUIPMENT 3400 2018 140	(4) Const	ruction	Contract Award				17 FEB
(6) Construction Completion19 AFR(7) Energy Study/Life-Cycle analysis was/will be performedYESb. Equipment associated with this project provided from other appropriations:PROCURING APPRCEQUIPMENT NOMENCLATUREPROCURING APPRCFISCAL YEAR APPROPRIATED OR REQUESTEDFURNISHINGS34002018JIGITAL CCTV SYSTEM34002018OGMUNICATIONS EQUIPMENT34002018140	(5) Const	ruction	Start				17 APR
(7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: PROCURING APPRC FISCAL YEAR APPROPRIATED COST OR REQUESTED EQUIPMENT NOMENCLATURE 3400 2018 335 KITCHEN EQUIPMENT 3400 2018 50 DIGITAL CCTV SYSTEM 3400 2018 90 COMMUNICATIONS EQUIPMENT 3400 2018 140	(6) Const	ruction	Completion				19 APR
b. Equipment associated with this project provided from other appropriations: PROCURING APPRO EQUIPMENT NOMENCLATURE FURNISHINGS 3400 2018 335 KITCHEN EQUIPMENT 3400 2018 50 DIGITAL CCTV SYSTEM 3400 2018 90 COMMUNICATIONS EQUIPMENT 3400 2018 140	(7) Energ	y Study/	Life-Cycle analysis	s was/wi]	ll be perfor	med	YES
FURNISHINGS34002018335KITCHEN EQUIPMENT3400201890DIGITAL CCTV SYSTEM34002018140COMMUNICATIONS EQUIPMENT34002018140	EQUIPMENT	r nomenci	PRO	CURING AI	PPRC APPRC OR RE	PRIATED QUESTED	COST (\$000)
KITCHEN EQUIPMENT 3400 2018 90 DIGITAL CCTV SYSTEM 3400 2018 140 COMMUNICATIONS EQUIPMENT 3400 2018	FURNISHI	NGS		3400	2	2018	335
DIGITAL CCTV SYSTEM 3400 2018 90 COMMUNICATIONS EQUIPMENT 3400 2018 140	KITCHEN I	EQUIPMEN	ſ	3400	2	2018	50
COMMUNICATIONS EQUIPMENT 3400 2018 140	DIGITAL (CCTV SYS	TEM	3400	2	2018	90
	COMMUNICA	ATIONS EQ	QUIPMENT	3400	2	2018	140

1. COMPONENT		EV 2017					POCP/	M	2. DAT	E (YYYMMDD)	
AIR FORCE					SINC		RUGRA	- IVI		20150911	
3. INSTALLATION AND LOC	ATION			4. CON	IMAND				5. ARE	A CONSTRUCTION	
BUCKLEY AIR FORCE BASE				AIR FO	RCF SP	ACE CO			COS		
COLORADO										1.03	
6. PERSONNEL	(1	PERMA	NENT	(2)	STUDE	NTS	(3) 5	SUPPOR	TED	TOTAL	
	OFFICE	R ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF 30-Sep-15	107	672	411	0	0	0	870	4217	1374	7,651	
b. END FY 2021	107	672	411	0	0	0	870	4217	1374	7,651	
7. INVENTORY DATA (\$000)	4 0 0 0										
	4,239	n 15								1 252 140	
b. INVENTOR FIOTAL AS C		р-тэ тову								1,253,140	
	- 1 111 111 VEIN			V 2017)						0 13 500	
		VEARS	(FV 2018	2017) EV 202	1)					13,300	
f REMAINING DEFICIENCY		I LANG	1 1 2010	-1 1 202	')					69 500	
a GRAND TOTAL										1 336 140	
8. PROJECTS REQUESTED I	N THIS PRO	GRAM (F	Y 2017)							1,000,140	
CATEGORY		.	. 2011)					cc	OST	DESIGN STATUS	
CODE	PROJECT	TITLE				SC	OPE	(\$0	00)	START COMPLETE	
171-475 Small Arms Range	Complex	<u></u>				14	FP	<u>13.</u>	500	Design Build	
							••	,		g.··	
							TOTAL	13,	500		
9. FUTURE PROJECTS IN NE	EXT FOUR P	ROGRAM	YEARS	(FY 201	8 - FY 20	021)					
							TOTAL	(0		
R&M UNFUNDED REQUIREM	IENT (\$M)						TOTAL	32	2.7		
10. MISSION OR MAJOR FUI	NCTIONS										
The mission of the 460th Space	e Wing is to p	rovide cou	nbatant (command	ders with	i expediti	onary wa	arrior Air	men and	I deliver global infrared	
surveillance, tracking and missi	lie warning to	r inealer a		eland del	ense.						
					0017 -	<u> </u>					
11. OUTSTANDING POLLUTI	ION AND SA	FETY DE	FICIENC	IES (FY	2017 - 2	021)					
Als Dall (1									•		
a. Air Pollution								(0		
									n		
b. water Pollution								(J		
									^		
c. Occupational Safety a	nd Health							(J		
d Other Fred									n		
d. Other Environmental								(J		
							TOT **		<u>n</u>		
DD Form 1390 IIII 1999			DD						U		
DD FUIII 1390, JUL 1999			PR	L 1003 E	א אטרוים.		_ 1				

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE			
AIR FORCE		(c	omputer gen	erate	d)					
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE										
BUCKLEY AIR FOR	CE BAS	E		SMALI	ARMS RANGE	COMPLEX				
BUCKLEY AFB SIT	E # 1									
COLORADO										
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)			
31476		171-475	1530,	CRWU0	63008		13,500			
9. COST ESTIMATES										
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)			
PRIMARY FACILIT	IES						8,046			
INDOOR SMALL A	RMS RA	NGE (171-475)		SM	1,250	3,488	(4,360)			
COMBAT ARMS TR	AINING	& MAINT BLDG (171-4	176)	SM	909	3,892	(3,538)			
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(148)			
SUPPORTING FACIN	LITIES						3,704			
UTILITIES				LS			(830)			
PAVEMENTS				LS			(350)			
SITE IMPROVEME	TS			LS			(300)			
COMMUNICATIONS				LS			(200)			
DEMOLITION				SM	2,016	260	(524)			
SPECIAL FOUNDA	FIONS	FOR EXPANSIVE SOILS		LS			(525)			
ENVIRONMENTAL	TESTIN	G AND REMEDIATION		LS			(975)			
SUBTOTAL							11,750			
CONTINGENCY	(5.0%)					587			
TOTAL CONTRACT	COST						12,337			
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				703			
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				470			
TOTAL REQUEST							13,511			
TOTAL REQUEST (1	ROUNDE	D)					13,500			
EQUIPMENT FROM (THER	APPROPRIATIONS (NON-	ADD)				(224			
10. Descripti	on of	Proposed Construc	tion: Co	nstru	ict an Indo	or Firing 1	Range and			
Combat Arms Tr	ainir	g and Maintenance	(CATM) fa	cilit	y. Facili	ty include:	s office			
space for inst	ructo	ors, two classrooms	s, a weapo	ns an	- Id range eq	- nuipment ma:	intenance			
area, an alarm	ed we	apons/ammunition s	storage va	ult,	restrooms,	a fourtee	n position			
indoor range,	space	e for a computerize	ed trainin	g sim	ulator, a	cleaning/de	egreasing			
room, range su	pplie	s and equipment st	torage roo	m, an	d a range	target stor	rage and			
repair room.	Facil	ity will be design	ned as a p	erman	ent constr	ruction in a	accordance			
and UEC 1-200-	.ed Fa	icilities Criteria	(UFC) I-2 od Sustain	00-01 able	., General Building F	Building Re	Comply			
with DoD minim	um Ar	titerrorism Standa	ards for b	uildi	ngs per UF	$r_{C} 4 - 010 - 01$. Demolish			
2,016 SM.					J I					
Air Conditioni	ng:	125 Tons								
11. Requirement	t: 12	50 SM Adequate	: 0 SM	Subst	andard: 20	16 SM				
PROJECT: Smal	l Arm	s Range Complex.	(Current	Missi	.on)					
REQUIREMENT :	An ir	door firing range	is requir	ed to	provide t	raining for	r assigned			
personnel to m	leet q	ualification stand	dards. Th	e pro	ject repla	ces the ex	isting Air			

DD FORM 1391, DEC 99 Previous editions are obsolete.

National Guard (ANG) constructed outdoor range complex which will be demolished as

Page No.

3. INSTALLATION, SITE AND LOCATION BUCKLET BUCKLET COLORA

(computer generated) 4. PROJECT TITLE

Y AIR FORCE BASE	SMALL ARMS RANGE COMPLEX
Y AFB SITE # 1	
DO	

FY 2017 MILITARY CONSTRUCTION PROJECT DATA

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
31476	171-475	1530/CRWU063008	13,500

part of this project. The complex must also include a Combat Arms Training and Maintenance (CATM) facility.

CURRENT SITUATION: The existing, outdoor, 1980's-vintage training range is in poor condition and cannot accommodate year-round training for base personnel. The range can only support M9 and M16A2 weapons, and there is no adequate onsite facility for providing CATM. Ten firing positions do not optimize CATM personnel. Training is performed in the 460 SFS Operations Building, which does not include provisions for modern training such as computerized, weapon-firing simulators. The current operations requires secured transport of the weapons. There are no sanitary facilities in the existing range facility. The facility is sited within 1,046 meters of the installation boundary with the City of Aurora, precluding M-240B/M-249AR training operations. Existing range has an Airfield Waiver and a Risk Assessment Code of 2 due to health concerns from lead exposure. Occupational Exposure Levels (OEL) are such that the range is periodically shut down or administrative constraints are required such as limiting instructor exposure to only 1,000 rounds in a day, installing portable fans to help lower OEL, and utilizing other CATMs such as the Air Force Academy, which is over an hour away and Aurora Police Department firing range for just-in-time training requirements. IMPACT IF NOT PROVIDED: Lead exposure will continue along with persistent shutdowns of the existing facility due to exposure over the OEL for lead to instructors, hindering the ability to meet mission requirements. The 460 SW will be unable to provide adequate local year-round training to Security Forces and deployable personnel. The overall impact compromises the ability of the 460 SW to maintain weapons proficiency on a timely basis, a critical requirement for providing adequate security for several space missions vital to national security and tenants such as COANG 140th Wing and Air Reserve Personnel Center. Proficiency in the new Fire Arms Training System (FATS) would not be provided within eighty miles. Keeping the mobility readiness posture within mandates will be increasingly difficult. Although soil remediation was accomplished in a past project, soil is still being exposed to contaminants, which may again need to be removed. Facility will still have an Airfield Waiver.

ADDITIONAL: This project meets the scope/criteria specified in Air Force Manual 32-1084, "Facility Requirements." A preliminary analysis of reasonable options for accommodating this project indicates that only new construction will meet operational requirements. A certificate of exception has been prepared. Base Civil Engineer: (720) 847-6501. CATM Facility: 909 SM = 9,785 SF; Indoor Range: 1,250 SM = 13,455 SF

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

1. COMPONENT AIR FORCE

1. COMPONENT AIR FORCE		FY 2017 MILITARY C	ONSTRU er ger	CTION	PROJECT	DATA	2	. DATE						
3. INSTALLATI	3. INSTALLATION AND LOCATION 4. PROJECT TITLE													
BUCKLEY AIR F BUCKLEY AFB S COLORADO	ORCE BAS	E		SMALL	ARMS RAI	NGE COMPLEX								
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PF	OJECT	NUMBER	8. PROJECT C	OST	(\$000)						
31476		171-475	153)/CRWU	063008	13	,50	0						
12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Project to be accomplished by design-build procedures														
(I) Proje	(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 O	ther Des	ign Costs						675						
(4) Const	ruction	Contract Award					17	FEB						
(5) Const	ruction	Start					17	APR						
(6) Const	ruction	Completion					18	OCT						
(7) Energ	y Study/	Life-Cycle analysis	was/w	vill b	e perfor	med		YES						
EQUIPMEN	I ASSOCI	Lated with this prop PROC	URING	APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED	Lati	COST (\$000)						
O&M SUPPO	ORT		3400)	2	2018		158						
COMMUNIC	ATIONS E	QUIPMENT	3080)	2	2018		65						

	F	Y 2017	MILITAI	RY CON	ISTRUC	TION P	ROGR	M	2. DATE (YYYMMDD)		
				4 . COM							
DOVED AID FORCE PASE				4. CON					5. ARE		
				AIR MO	BILITY		ND		003	1.07	
6 PERSONNEL	(1) 6			(2)	STUDE	NTS	(3)			1.07	
0. FERSONNEL	OFFICER						OFFICER			TOTAL	
a. AS OF 30-Sep-15	507	4235	709	0	0	0	0	0	0	5.451	
b. END FY 2021	504	4137	706	0	0	0	0	0	0	5,347	
7. INVENTORY DATA (\$000)					-	-	<u> </u>	-		- , -	
a. TOTAL ACREAGE	3400										
b. INVENTORY TOTAL AS OF	30-Sep-	15								1,353,020	
c. AUTHORIZATION NOT YET IN I	VENTO	RY								0	
d. AUTHORIZATION REQUESTED	IN THIS	PROGR	AM (FY	2017)						39,000	
e. PLANNED IN NEXT FOUR PROC	GRAM Y	EARS (F	Y 2018-	FY 2021)					0	
f. REMAINING DEFICIENCY		,		,						0	
g. GRAND TOTAL									-	1,392,020	
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY	2017)								
CATEGORY		,	,					CC	DST	DESIGN STATUS	
CODE PRO	JECT TI	TLE				SC	OPE	(\$0	00)	START COMPLETE	
211-179 Aircraft Maintenance Hang	ar					7,820	SM	39.	000	Design Build	
										0	
							TOTAL	39	000		
9. FUTURE PROJECTS IN NEXT FO		GRAM	YEARS	(FY 2018	3 - FY 20	21)					
		-	_			/					
							τοται		0		
									-		
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	. 10	0.3		
10. MISSION OR MAJOR FUNCTION	1S										
Dover AFB is home to the 436th Airlift	Wing (43	36 AW) c	of the Air	Mobility	Commar	nd (AMC)	, known	as the "E	Eagle Win	g", and the AMC-gained	
512th Airlift Wing (512 AW) of the Air F	Force Re	serve Ćo	ommand	(AFRC),	referred	l to as the	e "Liberty	y Wing".	It was the	only base to solely	
operate the massive C-5 Galaxy, with t	wo activ	e flying s	quadron	is (the 3r	d Airlift S	Squadron	, which r	now oper	ates the C	C-17 Globemaster III, and	
9th Airlift Squadron) and two Air Force	Reserve	e flying so	quadrons	s (the 326	6th Airlift	Squadro	on and th	ie 709th /	Airlift Squ	adron).	
11. OUTSTANDING POLLUTION AN	D SAFE	TY DEF	CIENCI	ES (FY 2	017 - 20	21)					
				- (/					
a. Air Pollution									0		
b. Water Pollution									0		
c. Occupational Safety and Heal	th								0		
d. Other Environmental									0		
							TOTAL		0		
			PR	EVIOUS F			TF				

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DA	ГА	2. DATE				
AIR FORCE		(computer generated)									
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	:	I				
DOVER AIR FORCE	BASE			AIRCE	AFT MAINTEN	ANCE HANGAR					
DOVER AFB SITE	# 1										
DELAWARE						0 0000000					
5. PROGRAM ELEM	ENT.	6. CATEGORY CODE	/. RPSUID/	PROJEC	CT NUMBER	8. PROJECT	COST (\$000)				
41976		211-179	169881	L/FJXT	133000		39,000				
		9. C	OST ESTIMA	TES							
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)				
PRIMARY FACILITI	ES						27,383				
MAINTENANCE HAN	IGAR			SM	7,820	3,433	(26,846)				
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(537)				
SUPPORTING FACII	ITIES						6,104				
UTILITIES				LS			(1,600)				
PAVEMENTS				LS			(2,200)				
SITE IMPROVEMEN	ITS			LS		İ	(700)				
COMMUNICATIONS				LS			(1,450)				
DEMOLITION				SM	473	220	(104)				
CONNECTION CHAP	RGE TO	UTILITY PROVIDER		LS			(50)				
SUBTOTAL						-	33,487				
CONTINGENCY	(5.0%))					1,674				
TOTAL CONTRACT (OST					-	35,161				
SUPERVISION, INS	PECTI	ON AND OVERHEAD	(5.7%)				2,004				
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	SUBTOTAL)				1,339				
TOTAL REQUEST						-	38,505				
TOTAL REQUEST (F	ROUNDE	D)					39,000)				
EQUIPMENT FROM (THER 2	APPROPRIATIONS (NON-	ADD)				(3,375				
10. Description of Proposed Construction: Project will provide a single bay, full-in, fuel cell capable maintenance hangar for maintaining C-5 & C-17 aircraft utilizing conventional design and construction methods to accommodate the mission of the facility. Project will include provide fire suppression systems, all utilities, pavements, site improvements & associated support 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: 30 Tons											
11. Requiremen	t: 57	400 SM Adequate	e: 21980 S	м	Substandar	d: 13004 SM					
PROJECT: Airc	raft	Maintenance Hangar	r (Current	Miss	ion)						
<u>REQUIREMENT:</u> A general purpose, fuel cell capable hangar fully covered to provide space for unscheduled maintenance, scheduled inspections, tests, repairs, aircraft weighing, and technical order compliance and modifications for home station and enroute aircraft. Project includes demolition of a former Precision Measurement Equipment Laboratory (PMEL) facility.											
<u>CURRENT SITUAT</u> the installati	<u>ION:</u> on to	Dover AFB current sustain the large	tly only h est C-5 wo	as tw rkloa	o complete d, a deman	ely covered ading C-17 w	hangars on orkload,				

1. COMPONENT		FY 2017 MILIT	TA	2. DATE			
AIR FORCE		(c					
3. INSTALLATION	l						
DOVER AIR FORCE BASE AIRCRAFT MAINTENANCE HANGAR							
DOVER AFB SITE	# 1						
DELAWARE							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)	
41976		211-179	16988:	,000			

and operation of AMC's largest hauler of channel cargo. Much of the work is performed during adverse weather months. Dover AFB is authorized 7 hangar spaces. One of Dover's full-in hangars is for corrosion control and used for scheduled washes and maintenance on average 165 days/year, and the other is utilized 365 days/year for C-5 regionalized isochronal inspection process that inspects aircraft from six different Air Force bases. This leaves no full-in hangars for the many unscheduled maintenance activities necessary. While Dover has 4 nose dock hangar spaces available, the maintenance group is unable to perform tail maintenance & jacking ops in these facilities when winds exceed 25 knots which occurs on average 111 days/year (daily from Dec-Mar). Hangars must support aircraft maintenance, repair, and aircraft inspection activities that are most efficiently done under complete cover. In 2009 Dover was directed to support an additional mission to perform C-17 Home Station Check (HSC) inspections. Dover currently has no hangar available to dedicate to this new mission requirement.

IMPACT IF NOT PROVIDED: Winds, temperatures, and snow cause continuing delays to aircraft maintenance. An analysis of base mission capable rates taken over three successive years identifies a decline of 10% on average during the winter months (Dec-Mar). From 2009-2014 Dover has lost 6,000 hours of lost mission capability due to weather or facility shortages. Dover AFB will continue to be deficient on adequate aircraft hangar spaces and many of Dover's maintenance operations will impacted. Maintenance personnel will be forced to continue conducting maintenance operations exposed to harsh elements resulting in longer maintenance turn-around times and additional labor requirements. Gear retraction, touchup painting, and control surface repairs are some of the required maintenance that get delayed or not accomplished due to weather conditions.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." An economic analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was completed. It indicated that new construction was the most cost effective method of meeting operational mission requirements. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in block 9 under supporting facilities as, "Connection charge to Utility Provider". Base Civil Engineer: (302) 677-6768. Hangar: 7,820 SM = 84,176 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						1
1. COMPONENT		FY 2017 MILIT	ARY CONSI	RUCTION E	PROJECT	DATA	2. DATE
2 INGTALLATI			ompucci g				
DOVER ATR FOR	OR AND I	DERITOR		ATPOPAT	TT MATN	ILE FENANCE HANGAI	b
DOVER AIR FOR	'E # 1			AIRCRAI	EI MAIN.	IENANCE HANGAI	C.
DELAWARE							
5. PROGRAM EL	EMENT	6. CATEGORY	CODE 7.	PROJECT N	UMBER	8. PROJECT CC)ST (\$000)
41976		211-179	169	9881/FJXT	133000	39,	000
12. SUPPLEMEN	NTAL DAT	A:					
a. Estimate	ed Design	n Data:					
(1) Proje	ct to be	accomplished	by design	n-build p	rocedur	es	
(2) Basis	:						
(a) St (b) Wi	tandard o here Des	or Definitive ign Was Most R	Design - ecently U	sed -			NO
(3) All O	ther Des	sign Costs					1,240
(4) Const	ruction	Contract Award	1				17 MAY
(5) Const	ruction	Start					17 JUL
(6) Const	ruction	Completion					19 MAR
(7) Energ	y Study/	Life-Cycle and	lysis was	s/will be	perform	med	YES
EQUIPMEN	I NOMENC	LATURE	PROCURI	NG APPRC	APPRO OR RE	AL YEAR PRIATED QUESTED	COST (\$000)
MOBILE CI	RANE		30	80	2	018	1,950
COMMUNIC	ATIONS		30	80	2	018	563
FURNITUR	E/FIXTUR	ES	34	00	2	018	563
FALL PRO	TECTION	SYSTEM	30	080	2	018	300

1. COMPONENT	F١	(2017 I	MILITAF	RY CON	2. DAT	2. DATE (YYYMMDD)						
										20150911		
3. INSTALLATION AND LOCATION				4. CON	IMAND				5. ARE			
EGLIN AIR FORCE BASE FLORIDA				AIR FOI	RCE MA	TERIEL	COMMA	ND	005	0.86		
6. PERSONNEL	(1) F	PERMAN	IENT	(2)	STUDEN	ITS	(3) \$	SUPPOR	TED	TOTAL		
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL		
a. AS OF 30-Sep-15	722	2630	3874				496	1020	622	9,364		
b. END FY 2021	721	2589	3825				490	1000	602	9,227		
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE	463,360	Main	Base: 2	1,269								
b. INVENTORY TOTAL AS OF	30-Sep-	15								4,108,782		
c. AUTHORIZATION NOT YET IN I	NVENTO	DRY								59,280		
d. AUTHORIZATION REQUESTED	IN THIS	PROGE	RAM (F)	(2017)						88,600		
e. PLANNED IN NEXT FOUR PRO	70,900											
f. REMAINING DEFICIENCY		(- /					394,988		
			4 722 550									
8 PROJECTS REQUESTED IN THIS	PROGE	AM (FY	(2017)							4,1 22,000		
	T ROOM	(/ /	2011)					CC	та	DESIGN STATUS		
	IECT TI	TIF				sco	DPE	(\$(
120 142 Elightling Eiro Station						3 155	SM	12	600	Dosign Build		
316-333 Advanced Munitions Tech	-333 Advanced Munitions Technology Complex							75	000	Design Build		
310-333 Advanced Munitions rech	nced Munitions recinology complex							75,	000	Design Dullu		
9. FUTURE PROJECTS IN NEXT FC 721-312 Dormitories (288 RM) Rep 721-313 F-35 STUDENT DORMITO 722-351 F-35 TECH TRAINING DII 171-621 F-35 INTEGRATED TRAIN	DUR PRO lace Dor DRY II (1 NING FA NING CE	DGRAM m 19 44 RM) CILITY <i>I</i> NTER A	YEARS ADDITIC CADEM	(FY 2018 N ICS BUIL	3 - FY 20	2 <i>1)</i> 9,679 7,258 1,329 4,461	SM SM SM SM SM	88, 35, 20, 4,9 11,	600 000 500 400			
							TOTAL	70,	900			
R&M UNFUNDED REQUIREMENT (SM)						TOTAL	19	2.8			
10. MISSION OR MAJOR FUNCTION	NS											
Eglin is an Air Force Materiel Comman development, acquisition, testing, dep conducts test and evaluation of U.S. a	nd (AFM loyment nd allied	C) base and sust air arma	serving a ainment ament, n	as the foo of all air avigation	cal point delivere and gui	for all Ai d non-nu dance sy	r Force a uclear we /stems, a	armamer eapons. and com	nts. Eglin The bas mand an	is responsible for the e plans, directs and d control systems.		
	ID SAFE		ICIENC	E3 (FY 2	2017 - F	1 2027)			0			
a. Air Pollution									0			
b. Water Pollution									0			
c. Occupational Safety and Hea	lth								0			
d. Other Environmental									0			
							τοται		0			
DD Form 1390 .IUI 1999			PR	EVIOUS E	DITION IS		ETE.		-			

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA						2. DATE	
AIR FORCE (computer generated)								
3. INSTALLATION, SITE AND LOCATION					4. PROJECT TITLE			
EGLIN AIR FORCE BASE					ADVANCED MUNITIONS TECHNOLOGY COMPLEX			
EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION)								
5 DDOCDAM ELEMENT & CATEGODY CODE 7 DDCIIID								
J. FROGRAM ELEM	ENI 6. CALEGORI CODE 7. RESOLDA			INCOLUT NOLDER				
72806	72806 316-333 1695			/FTFA043000		75,000		
9. COST ESTIMATES								
Тла				TT /M	OUNTERV	UNIT	COST	
IIEM				07M	QUANTITY		(\$000)	
PRIMARY FACILITIES							48,255	
SHARED OFFICES (311-173)				SM	1,521	3,755	(5,711)	
ADVANCED DYNAMICS LAB (316-333)				SM	1,044	6,908	(7,212)	
EXPLOSIVES MACHINING (316-333)				SM	376	6,036	(2,270)	
CHARACTERIZATION LAB (319-946)				SM	2,887	5,498	(15,873)	
EXPLOSIVES STORAGE (422-264)				SM	208	4,573	(951)	
INITIATION TEST FACILITY (316-333)				SM	734	6,499	(4,770)	
ADVANCED ENERGETICS (AERL) (316-333)				SM	1,219	6,284	(7,660)	
ADVANCED PROCESSING (316-333)				SM	280	6,940	(1,943)	
FIRE PUMP BUILDING (843-316)				SM	125	9,135	(1,142)	
SUSTAINABILITY AND ENERGY MEASURES				LS			(723)	
SUPPORTING FACILITIES							16,938	
SITE IMPROVEMENTS				LS		ĺ	(6,755)	
UTILITIES				LS			(4,825)	
PAVEMENTS				LS			(3,378)	
COMMUNICATIONS				LS			(1,448)	
SITE DEMOLITION				LS			(182)	
CONNECTION CHARGE TO UTILITY PROVIDER				LS			(350)	
SUBTOTAL						-	65,193	
CONTINGENCY (5.0%)							3,260	
TOTAL CONTRACT COST							68,453	
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)							3,902	
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)							2,608	
TOTAL REQUEST							74,963	
TOTAL REQUEST (ROUNDED)							75,000)	
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							(35,000	
10. Description of Proposed Construction: These facilities are required for								
development of nano energetic/explosive technologies and the development,								
integration, rapid prototyping, and fielding of advance munitions. The facility								
should be compatible with DoD, Air Force, and base design standards. In addition,								

local materials and construction standards technique shall be used when cost effective. Facility will be designed as a 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 Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01. Facilities should meet explosives safety/DDESB (DoD Explosives Safety Board), bioenvironmental, biomedical, environmental, security/property protection and information security requirements for use of explosives and nano materials. Special

DD FORM 1391, DEC 99
1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE EGLIN AIR FORCE BASE ADVANCED MUNITIONS TECHNOLOGY COMPLEX EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA 5. PROGRAM ELEMENT 7. RPSUID/PROJECT NUMBER 6. CATEGORY CODE 8. PROJECT COST (\$000) 72806 316-333 1695/FTFA043000 75,000 features include clean room lab and material prep areas, wall construction meeting substantial dividing wall requirements, frangible walls and roof, fragment protection, mitigation techniques to minimize vibration in some laboratories including totally isolated rooms inside a building, a buried basic research facility (partially buried and surround by a bin wall to support earth around and covering the facility), and lightning protection. Project includes an HVAC facility with a redesigned, energy efficient chilled water system and new central utilities primary distribution piping. Project site work includes clearing, cut/fill, grading, 7-ft chain link fence with 3 strands of barbed wire, storm water drainage, utilities, and pavements. Air Conditioning: 1,200 Tons 11. Requirement: 22737 SM Adequate: 3181 SM Substandard: 11162 SM PROJECT: Advanced Munitions Technology Complex. (New Mission) REQUIREMENT: DoD and AF mid and far term munitions strategic plans rely heavily on Micro-Munitions requiring Advanced Energetics containing nano materials. A primary priority in the 2012 "Sustaining U.S. Global Leadership: Priorities for 21st Century Defense" includes a large focus on Anti-Access/Area Denial (A2AD) challenges and Counter Weapons of Mass Destruction Weapons, which requires the development of sub scale high speed munitions requiring Advanced Energetics containing nano and conventional materials. This project is critical to AFRL's ability to support these AF-level strategic plans. AFRL/RW is responsible for all AF air-delivered conventional munition R&D. Currently, DoD spends year \$250-300M/year on basic nano-science research. No existing US explosive facility is capable of handling or using nano explosive powders or Advanced Energetics that utilize nano materials. Existing explosives facilities don't meet bioenvironmental, environmental or safety requirements ("clean-room" type environment) for handling, processing or testing nano size materials. The Department of Defense Research and Engineering (DDR&E) Strategic Plan 2007 expects to capitalize on basic nano science research breakthroughs that are now beginning to occur for future Micro Munitions containing Advanced Energetics; however, the infrastructure required to pursue the application of nano science to Advanced Energetics does not presently exist. Scientific Advisory Board (SAB-TR-08-05, Jan 09) feedback: "Nano-energetics facilitation is needed to move forward in this important area...sufficient funding and infrastructure should be provided...we need to move out promptly." This project is critical in support of DDR&E's Advanced Energetics Thrust and National Aerospace Initiative as well as the Air Force's role as a "key participant" in new National Advanced Energetics Technology Program. CURRENT SITUATION: The High Explosive Research and Development (HERD) Area mission is expanding and the existing facilities are not suitable for the expanded mission. AFRL cannot accomplish the expanded mission without these new facilities. No existing facility is available for modification/renovation to meet this critical requirement. No US facility now doing nano science research is able to store/handle/use explosive materials. No US explosives facility is capable of using nano powders at a scale necessary for a system. Facilities provided by this project are the only planned US capability able to apply current and future nano

1. COMPONENT		FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE							
AIR FORCE		(computer generated)							
3. INSTALLATION	, SITE	SITE AND LOCATION 4. PROJECT TITLE							
EGLIN AIR FORCE	BASE			ADVANCED MUNITIO	NS TECHNOLOGY	COMPLEX			
EGLIN AFB SITE	# 1 (E	GLIN MAIN AND RESERV	VATION)						
FLORIDA									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)			
72806		316-333	/FTFA043000	75	5,000				
science breakt	nce breakthrough and basic research to explosive materials/advanced energetics								
to allow its u	lse in	in research, development, scale-up, integration, and rapid							

science breakthrough and basic research to explosive materials/advanced energetics to allow its use in research, development, scale-up, integration, and rapid prototyping for future munitions. These facilities are needed to provide basic and applied research on combining nano particles and explosive materials to produce smaller and potentially more lethal munitions to meet the requirements of the AF and DoD.

IMPACT IF NOT PROVIDED: DoD and AF will delay or forfeit the ability to transition breakthrough leaps in warfighter capability stemming from sub scale high speed munitions with advanced nano energetics. This impacts the development of smaller payloads, increased load-out and mission flexibility; the potential for increased range of stand-off weapons; the development of smaller munitions critical to UAS platforms; and improving the ability to fight in the A2AD environment. Additionally, it delays or forfeits the ability to pass insensitive munition tests required by Public Law (USC Title 10, Chapter 141 2389 (7 Jan 11). For future purchases of existing munitions, such as MK-82/MK-84 bombs, AMRAAM air-to-air missiles, and JASSM air-to-ground missiles, this will result in "no-go procurement decisions." These facilities are needed to provide safer, more advanced insensitive munitions, with significantly more energy with smaller size. Without this R&D capability, aircraft will have to complete additional sorties, potential for increased logistical support due to storing larger size munitions, and decrease ops tempo to load and transport. Without these facilities, the potential to minimize collateral damage and injury to noncombatants will not be achieved along with the ability to potentially reduce risk of explosive accidents and loss of aircraft.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction) was done. It indicates there is only one option that will meet operational requirements/satisfy statutory requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in Block 9 under Supporting Facilities as, "Connection Charge to Utility Provider". Base Civil Engineer: (850) 882-2876. Shared Offices: 1,521 SM = 16,375 SF; Advanced Dynamic Lab: 1,044 SM = 11,240 SF; Explosive Machining: 376 SM = 4,048 SF; Characterization Lab: 2,887 SM = 31,082 SF; Explosive Storage: 208 SM = 2,240 SF; Initiation Test Facility: 734 SM = 7,902 SF; Advanced Energetics (AERL): 1,219 SM = 13,124 SF; Advanced Processing: 280 SM = 3.015 SF; Fire Pump Building: 125 SM = 1,346 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. This facility holds the potential for applications to Army and Navy research support.

1. COMPONENT AIR FORCE		FY 2017 MILITARY C	ONSTRU	UCTION PRO nerated)	JECT D	DATA	2. DATE
2							
GLIN AIR FOR EGLIN AFB SIT RESERVATION) FLORIDA	ON AND L CE BASE E # 1 (E	GLIN MAIN AND		4. PROJEC	T TITI MUNITI	LE CONS TECHNOLO	OGY COMPLEX
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUM	BER 8	. PROJECT CC	OST (\$000)
72806		316-333	169	5/FTFA0430	000	75,	,000
12. SUPPLEMEN a. Estimate (1) Proje (2) Basis	NTAL DATA ed Design ct to be :	A: n Data: accomplished by de	sign-	build proc	cedures	3	
(a) St (b) W1	andard onere Desi	or Definitive Desig ign Was Most Recent	n - lv Use	ed -			NO
	ther Des	ian Costs	19 000				3 750
(4) Const	rugtion	Contract Award					17 FFR
(F) Const	ruction	Contract Award					17 FED
(5) Const	rugtion	Completion					10 CFD
(7) Energ		tife Guele englusi		will be pe		d	VEC
(7) Energ	y study/	Life-Cycle analysis	; was/	will be pe	errorme	EQ	IES
EQUIPMEN	IL ASSOCI	LATURE	Ject p CURING	APPRC 2	FISCAL APPROPI OR REQI	NET APPTOPTI VEAR RIATED UESTED	COST (\$000)
SUPPORT I	EQUIPMEN	IS	360	0	20	18	35,000

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DAT	ГА	2. DATE		
AIR FORCE		(c	omputer gen	erate	d)				
3. INSTALLATION	, SITE	AND LOCATION		4. PF	OJECT TITLE	1	÷		
EGLIN AIR FORCE	BASE			FLIGHTLINE FIRE STATION					
EGLIN AFB SITE	# 1 (E	GLIN MAIN AND RESERV	VATION)	N)					
FLORIDA									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	<pre>>/PROJECT NUMBER 8. PROJECT COST (\$000)</pre>					
72806		130-142	1695,	/FTFA0	3,600				
		9. C	OST ESTIMA	TES					
		ттъм		TT /M	OUNTERV	UNIT	COST		
				07 M	QUANIIII		(\$000)		
PRIMARY FACILIT	IES						8,837		
FIRE STATION				SM	3,155	2,746	(8,664)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(173)		
SUPPORTING FACIN	LITIES						2,983		
UTILITIES				LS			(650)		
PAVEMENTS				LS	İ		(805)		
SITE IMPROVEME	NTS			LS			(550)		
DEMOLITION				SM	2,010	270	(543)		
COMMUNICATIONS				LS			(150)		
EMERGENCY GENE	RATOR			LS			(250)		
CONNECTION CHAR	RGE TO	UTILITY PROVIDER		LS			(35)		
SUBTOTAL							11,819		
CONTINGENCY	(5.0%))					591		
TOTAL CONTRACT (COST						12,410		
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				707		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				473		
TOTAL REQUEST							13,590		
TOTAL REQUEST (1	ROUNDE	D)					13,600)		
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				(636		
10. Descripti conventional d requirements. with DoD Unifi and UFC 1-200- with DoD minim apparatus stal area, recreati area, storage withstand hurr horizontal loa	on of lesign Faci .ed Fa 02, H um An .ls, t .on rc and a ricane uds.	Proposed Construct and construction lity will be design cilities Criteria figh Performance and titerrorism Standa training and testin bom, day room, vend all other supporting Category III ford Demolish 2,010 SM.	ction: Co methods t gned as a (UFC) 1-2 nd Sustain ards for b ng rooms, ding area, ng facilit ce wind in	nstru o acc perma 00-01 able uildi bedro kitc ies. addi	ct a facil commodate t nent const , General Building R ngs per UF coms, rest hen, dinin Facility tion to ot	ity utilizin the fire stat cruction in a Building Rec Requirement. C 4-010-01. rooms/showen ag area, admi shall be des ther vertical	ng tion accordance quirements Comply Includes rs, laundry inistration signed to L and		

11. Requirement: 3155 SM Adequate: 0 SM Substandard: 2010 SM <u>PROJECT:</u> Flightline Fire Station. (Current Mission). <u>REQUIREMENT:</u> The fire department requires a facility that can consolidate operations from multiple facilities and improve response capabilities to the west side of the base. This will provide better support for customers (flying operations and base population), provide the total required space to house the operations and equipment used by the fire department and increase the quality of

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Previous editions are obsolete.

Page No.

		1	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
72806	130-142	1695/FTFA033003	13,600

life for those personnel assigned. The location must ensure compliance with DoD response times and account for beddown requirements of the F-35 Joint Strike Fighter including aircraft ramp expansion.

CURRENT SITUATION: Fire Station 2 is too far from the runway; as a result, response time requirements cannot be met. Current fire stations do not meet Air Force or National Fire Protection Association (NFPA) requirements. The fire department has received several new Aircraft Rescue Firefighting (ARFF) trucks that do not fit (width/length) into station stalls. As a result, these mission critical assets sit outside exposed to harsh climatic conditions (sun, severe weather/winds, rain, freezing temperatures, and corrosive salt in the air). During hurricanes and other severe weather events vehicles are stored in multiple locations (aircraft hangars/shelters, k-spans) impacting response times and vehicle security during increased force protection conditions. Other fire department functions such as training, logistics, fire prevention and communications are located in geographically separated facilities, forcing firefighters and fire apparatus to leave fire protection districts to conduct daily activities. There have been several vehicle accidents involving fire trucks responding from Station 2 due to its location on a main thoroughfare where trucks must cross a busy road to access the flight line. Fire Station 2 has a Fire Safety Deficiency Code one (FSD-1) due to a lack of fire suppression.

<u>IMPACT IF NOT PROVIDED</u>: The fire department will continue to operate at substandard efficiency, which is a drain on manpower, apparatus and financial resources. The life expectancy and operational capabilities of equipment left exposed to the elements will be drastically reduced. Geographical separation of facilities will continue to impact, the ability to meet mandated response times, wear and tear on vehicles, and productivity.

<u>ADDITIONAL</u>: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements" and 4-730-10, "Fire Station Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, add/alter, and status quo operations. New construction was found to be the most cost effective option. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in Block 9 under Supporting Facilities as, "Connection Charge to Utility Provider". Base Civil Engineer: (850) 872-2876. Flightline Fire Station: 3,156 SM = 33,980 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.

LORIDA					
. PROGRAM ELEMENT	6. CATEGORY C	ODE 7. PROJECT	NUMBER 8. PRO	OJECT COS	ST (\$000
72806	130-142	1695/FTFA	033003	13,6	500
2. SUPPLEMENTAL DAT	A:				
a. Estimated Desig	n Data:				
(1) Project to be	e accomplished b	y design-build	procedures		
(2) Basis: (a) Standard	or Definitive D	esign -			NO
(b) Where Des	ign Was Most Re	cently Used -			
(3) All Other De	sign Costs				680
(4) Construction	Contract Award			1	L7 FEB
				1	L7 APR
(5) Construction	Start				
(5) Construction (6) Construction	Start Completion			1	L8 SEP
(5) Construction(6) Construction(7) Energy Studyb. Equipment assoc	Start Completion /Life-Cycle anal iated with this	lysis was/will b project provide	e performed ed from other a] uppropria	L8 SEP YES tions:
(5) Construction(6) Construction(7) Energy Studyb. Equipment assocEQUIPMENT NOMENCE	Start Completion /Life-Cycle anal iated with this LATURE	lysis was/will b project provide PROCURING APPRO	e performed ed from other a FISCAL YEAN APPROPRIATE OR REQUESTE	ppropria R D D	L8 SEP YES tions: COST (\$000
 (5) Construction (6) Construction (7) Energy Study b. Equipment assoc EQUIPMENT NOMENC COMMUNICATION EQUIPMENT NOMENC 	Start Completion /Life-Cycle anal iated with this LATURE JUIPMENT	lysis was/will b project provide PROCURING APPRO 3400	e performed ed from other a FISCAL YEAJ APPROPRIATE OR REQUESTE 2018	1 nppropria R D D	L8 SEP YES tions: COST (\$000
 (5) Construction (6) Construction (7) Energy Study b. Equipment associated EQUIPMENT NOMENCIATION EQUIPMENT NOMENCIATION EQUIPMENT 	Start Completion /Life-Cycle anal iated with this LATURE QUIPMENT	lysis was/will b project provide PROCURING APPRC 3400 3400	e performed ed from other a FISCAL YEAN APPROPRIATE OR REQUESTE 2018 2018] nppropria 2 D 2D	L8 SEP YES tions: COST (\$000 66 104
 (5) Construction (6) Construction (7) Energy Study b. Equipment assoc EQUIPMENT NOMENC COMMUNICATION EQUIPMEN DIGITAL CCTV SYS 	Start Completion /Life-Cycle anal iated with this LATURE QUIPMENT TT	lysis was/will b project provide PROCURING APPRO 3400 3400 3400	e performed ed from other a FISCAL YEAN APPROPRIATE OR REQUESTE 2018 2018 2018] appropria R D D	L8 SEP YES tions: COST (\$000 66 104 27
 (5) Construction (6) Construction (7) Energy Study b. Equipment associated EQUIPMENT NOMENCIATION EQUIPMENT NOMENCIATION EQUIPMENT DIGITAL CCTV SYSTEM FURNISHINGS 	Start Completion /Life-Cycle anal iated with this LATURE UIPMENT T TEM	Lysis was/will b project provide PROCURING APPRC 3400 3400 3400 3400	e performed ed from other a FISCAL YEAM APPROPRIATE OR REQUESTE 2018 2018 2018 2018	1 appropria 2 2 2 2	L8 SEP YES tions: COST (\$000 66 104 27 439
 (5) Construction (6) Construction (7) Energy Study b. Equipment association EQUIPMENT NOMENC COMMUNICATION EQUIPMEN DIGITAL CCTV SYS FURNISHINGS 	Start Completion /Life-Cycle anal iated with this LATURE QUIPMENT TT STEM	lysis was/will b project provide PROCURING APPRO 3400 3400 3400 3400	e performed ed from other a FISCAL YEAN APPROPRIATE OR REQUESTE 2018 2018 2018 2018 2018] appropria 2 2 2 2	L8 SEP YES tions: COST (\$000 66 104 27 439
 (5) Construction (6) Construction (7) Energy Study b. Equipment association EQUIPMENT NOMENCE COMMUNICATION EQUIPMENT DIGITAL CCTV SYSTEM FURNISHINGS 	Start Completion /Life-Cycle anal iated with this LATURE QUIPMENT TT	lysis was/will b project provide PROCURING APPRO 3400 3400 3400 3400	e performed ed from other a FISCAL YEAN APPROPRIATE OR REQUESTE 2018 2018 2018 2018	1 appropria 2 3D	L8 SEP YES tions: COST (\$000 66 104 27 439
 (5) Construction (6) Construction (7) Energy Study b. Equipment association EQUIPMENT NOMENC COMMUNICATION EQUIPMENT DIGITAL CCTV SYSTEM FURNISHINGS 	Start Completion /Life-Cycle anal iated with this LATURE UIPMENT T	Lysis was/will b project provide PROCURING APPRC 3400 3400 3400 3400	e performed ed from other a FISCAL YEAM APPROPRIATE OR REQUESTE 2018 2018 2018 2018 2018	1 appropria 2 2 2 2	L8 SEP YES tions: COST (\$000 66 104 27 439
 (5) Construction (6) Construction (7) Energy Study b. Equipment association EQUIPMENT NOMENC COMMUNICATION EQUIPMEN DIGITAL CCTV SYS FURNISHINGS 	Start Completion /Life-Cycle anal iated with this /LATURE /UIPMENT TT STEM	lysis was/will b project provide PROCURING APPRO 3400 3400 3400 3400	e performed ed from other a FISCAL YEAN APPROPRIATE OR REQUESTE 2018 2018 2018 2018 2018] appropria 2 2 2 2	L8 SEP YES tions: COST (\$000 66 104 27 439
 (5) Construction (6) Construction (7) Energy Study b. Equipment association EQUIPMENT NOMENCIAL COMMUNICATION EQUIPMENDIGITAL CCTV SYSTEM FURNISHINGS 	Start Completion /Life-Cycle anal iated with this LATURE QUIPMENT TT STEM	lysis was/will b project provide PROCURING APPRO 3400 3400 3400 3400	e performed ed from other a FISCAL YEAN APPROPRIATE OR REQUESTE 2018 2018 2018 2018 2018	1 appropria 2 3D	L8 SEP YES Ltions: COST (\$000 66 104 27 439
 (5) Construction (6) Construction (7) Energy Study b. Equipment association EQUIPMENT NOMENC COMMUNICATION EQUIPMENT DIGITAL CCTV SYSTEM FURNISHINGS 	Start Completion /Life-Cycle anal iated with this LATURE UIPMENT T TT TTEM	lysis was/will b project provide PROCURING APPRO 3400 3400 3400 3400	e performed ed from other a FISCAL YEAM APPROPRIATE OR REQUESTE 2018 2018 2018 2018 2018	1 appropria 2 2 2	L8 SEP YES Ltions: COST (\$000 66 104 27 439
 (5) Construction (6) Construction (7) Energy Study b. Equipment association EQUIPMENT NOMENCIAL COMMUNICATION EQUIPMENDIGITAL CCTV SYSTEM FURNISHINGS 	Start Completion /Life-Cycle anal iated with this LATURE QUIPMENT TT TTEM	lysis was/will b project provide PROCURING APPRO 3400 3400 3400 3400	e performed ed from other a FISCAL YEAN APPROPRIATE OR REQUESTE 2018 2018 2018 2018 2018] appropria	L8 SEP YES Ltions: COST (\$000 66 104 27 439

1. COMPONENT AIR FORCE	F١	FY 2017 MILITARY CONSTRUCTION PROGRAM								2. DATE (YYYMMDD) 20150911		
3. INSTALLATION AND LOCATION				4. CON	IMAND				5. ARE	A CONSTRUCTION		
PATRICK AIR FORCE BASE									COS	TINDEX		
FLORIDA				AIR FO	RCE SP/	ACE CO	MMAND)		0.93		
6. PERSONNEL	(1) F	PERMAN	IENT	(2)	STUDEN	ITS	(3) 5	SUPPOR	TED	0.00		
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED		TOTAL		
a. AS OF 30-Sep-15	113	533	1408	211	561	614	39	92	592	4.163		
b. END FY 2021	113	533	1408	211	561	614	39	92	592	4,163		
7. INVENTORY DATA (\$000)										· ·		
a. TOTAL ACREAGE	2,324											
b. INVENTORY TOTAL AS OF	30-Sep-	-15								1.064.426		
c. AUTHORIZATION NOT YET IN I		ORY								0		
d. AUTHORIZATION REQUESTED	IN THIS			(2017)						13.500		
e. PLANNED IN NEXT FOUR PRO	GRAM Y	FARS (EY 2018	-2021)						0		
f. REMAINING DEFICIENCY		(0.0	_0)						12 800		
										1 090 726		
8 PROJECTS REQUESTED IN THIS	PROGE	RAM (FY	(2017)							1,000,120		
	САТ		2011)					00	та	DESIGN STATUS		
						SCO	OPE	(\$0				
130,142 Fire/Crash Rescue Station						3 218	SM	13	500	Design Build		
						5,210	3101	15,	500	Design Duliu		
9. FUTURE PROJECTS IN NEXT FC	UR PRO	DGRAM	YEARS	(FY 2018	8-FY 202	1)	<u>TOTAL</u>	13, 	<u>500</u>			
R&M UNFUNDED REQUIREMENT (\$	SM)						TOTAL	17	7.7			
10. MISSION OR MAJOR FUNCTION	, NS											
The 45th Space Wing provides missio spacelift operations and operate, main ballistic munitions evaluations. It also other space launch activities in accord	n-ready itain, and supports ance wit	forces fo d secure s civil an th Nation	or the 14 the Eas d commo al Space	th Air For tern Rang ercial spa e Policy a	rce and th ge. It su acelift op and with	ne U.S. S oports ba erations the provi	Strategic allistic m licensed ision of p	: Comma issile tes I by the F public lav	ind to saf it launche ederal A v.	ely execute and maintain es, aircraft tests, and other viation Administration and		
11. OUTSTANDING POLLUTION AN	ID SAFE	ETY DEF		ES (FY 2	2017 - F	(2021)						
a. Air Pollution				,		,		(C			
b. Water Pollution								(0			
c. Occupational Safety and Hea	lth							(0			
d. Other Environmental								(0			
							TOTAL		0			

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	OCTION	2. DATE				
AIR FORCE		(c	omputer ger	(enerated)					
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	1			
PATRICK AIR FOR PATRICK SITE # FLORIDA	CE BAS	E		FIRE/CRASH RESCUE STATION					
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
31476		130-142	3143,	/SXHT0	13001	13,500			
		9. C	OST ESTIMA	TES					
		ITEM		∪/м	OUANTITY	UNIT	COST		
					~		(\$000)		
FIRE/CRASH RESC	JE STA	TION					9,041		
FIRE/CRASH RES	CUE ST	ATION		SM	3,218	2,750	(8,850)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(191)		
SUPPORTING FACIL	LITIES			1.7			2,693		
PAVEMENTS				LS			(740)		
SITE IMPROVEME	NTS			LS			(700)		
FACILITY DEMOL	ITION/	ASBESTOS ABATEMENT		SM	1,696	270	(458)		
COMMUNICATIONS	SUPPO	RT		LS			(125)		
EMERGENCY GENE	RATOR			LS			(250)		
SUBTOTAL						-	11,733		
CONTINGENCY	(5.0%))					587		
TOTAL CONTRACT	COST					-	12,320		
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				702		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				469		
TOTAL REQUEST							13,492		
TOTAL REQUEST (1	ROUNDE	D)					13,500)		
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				(461		
10. Descripti	.on of	Proposed Construc	ction: Pr	ovide	drive-thr	ough truck	bays, roll		
up doors, cond	rete barre	block walls, and mail tile roofs Fac	reinforcea sility wil	siap 1 be	on-grade.	Construct	rlat built-		
construction i	.n acc	ordance with DoD U	Unified Fa	cilit	ies Criter	ia (UFC) 1-	200-01,		
General Buildi	.ng Re	quirements and UFC	C 1-200-02	, Hig	h Performa	ince and Sus	tainable		
Building Requi	remen	t. Comply with Do	oD minimum	Anti	terrorism	Standards f	or		
buildings per	UFC 4	-010-01. Include	apparatus	room	, living	quarters,	Domolish		
existing fire	stati	on facilities (1,6	596 SM) an	d sur	rounding r	avements.	Demotish		
Air Conditioni	ng:	158 Tons			51				
11. Requirement	t: 32	18 SM Adequate:	SM S	ubsta	ndard: 169	06 SM			
PROJECT: Cons	struct	a Fire/Crash Reso	cue Statio	n. (Current Mi	.ssion)			
REQUIREMENT:	This	project directly a	supports t	he 45	th Space W	ling's opera	tional		
mission and th	ne rou	tine mission of Ai	ir Force S	pace	Command.	A fire stat	ion is		
required to protect small and large frame aircraft, support operations at Cape							t Cape		
Housing area (locat	on, respond to eme ed four miles Sout	h of Patr	on Pa ick A	TTICK AFB	and at the	South		
access to the	fligh	t line, South Patr	rick Drive	, and	State Roa	d A1A. Dri	ve-through		
vehicle bays,	stori	ng fire-fighting v	vehicles,	are r	equired fo	or safety and	d to improve		
response time.	Prov	ide 10.03 square m	meters of	priva	te living	space per			
DD FORM 1391,	DEC 9	9 Previou	s edition	s are	obsolete.		Page No.		

1. COMPONENT	FY 2017 M	FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE							
AIR FORCE		(computer generated)							
3. INSTALLATION	SITE AND LOCATION 4. PROJECT TITLE								
PATRICK AIR FORCE BASE FIRE/CRASH RESCUE STATION									
PATRICK SITE # 1	1								
FLORIDA									
5. PROGRAM ELEM	EMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000)								
31476	130-142	130-142 3143/SXHT013001 13,500							

firefighter as well as storage and maintenance space for firefighting equipment, administrative space, dining area, exercise room, training room, and alarm room. Interior and exterior finishes will conform to the Patrick AFB Facilities Excellence Plan.

CURRENT SITUATION: Patrick AFB has one substandard fire station. This fire station directly supports operational flying missions, augments fire protection function at Cape Canaveral Air Station, and provides emergency response to Patrick AFB and surrounding communities. The existing facility was designed to accommodate smaller and less capable fire protection equipment and does not meet operational or quality of life requirements. The floor, on the west side vehicle bays, collapsed under the weight of a P-22 fire truck. The building sits at a low elevation and is subject to flooding during heavy rains/tropical storms. Cracks on the slab-on-grade foundation and walls are common throughout the facility. Roof and windows leak during rain storms. The heating and air conditioning system does not provide proper temperature control throughout the facility. There is no system to extract exhaust fumes from the fire trucks creating air quality health problems which is in violation of National Fire Protection Code and Occupational Safety Health Act. There is no storage for firefighting equipment; therefore, space in the stalls are being used as storage. The facility does not have a fire suppression system. A FSD of 1 has been assigned to the facility.

<u>IMPACT IF NOT PROVIDED</u>: The Fire/Crash Rescue Station will not meet operational or quality of life requirements. More capable and heavier fire trucks will continue to break the slab-on-grade foundation, leaving portions of the facility unusable. Poor air quality will continue. Annual cost for maintenance and repair will increase.

ADDITIONAL: This project meets criteria/scope specified in the Air Force Manual 32-1084, "Facility Requirements." An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Base Civil Engineer: Commercial (321) 494-4041. Fire/Crash Rescue Station: 3,218 SM = 34,638 SF.

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

1. COMPONENT		FY 2017 MILIT	2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE							
AIR FORCE			omputer ge	enerated)					
3. INSTALLATI	ON AND L	OCATION		4. PRO	JECT TI	TLE				
PATRICK AIR F	URCE BAS	5E		FIRE/C	RASH RE:	SCUE STATION				
FLORIDA	" -									
5. PROGRAM EL	EMENT	6. CATEGORY	CODE 7. E	ROJECT 1	NUMBER	8. PROJECT CO	OST	(\$000)		
31476		130-142	31	43/SXHTO	13001	13,	,500)		
12. SUPPLEMEN	NTAL DATA	A:								
a. Estimate	ed Design	n Data:								
(1) Proje	ct to be	accomplished	by design	-build p	rocedur	es				
(2) Basis (a) St (b) Wi	: tandard (here Des:	or Definitive I ign Was Most Re	Design - ecently Us	ed -				NO		
(3) All O	ther Des	ign Costs	-					675		
(4) Const	ruction	Contract Award					17	FEB		
(5) Const	ruction	Start					17	APR		
(6) Const	ruction	Completion					18	AUG		
(7) Energ	y Study/	Life-Cycle ana	lysis was	/will be	perform	med		YES		
EQUIPMENT	I NOMENCI	LATURE	PROCURIN	G APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)		
O&M SUPPO	ORT		340	00	2	018		106		
COMMUNIC	ATIONS E	QUIPMENT	308	30	2	018		97		
FURNISHI	NGS		340	00	2	018		259		

1. COMPONENT	F	Y 2017 I			STRUC		ROGR	м	2. DAT	E (YYYMMDD)
AIR FORCE		20171								20150911
3. INSTALLATION AND LOCATION				4. CON	IMAND				5. ARE	A CONSTRUCTION
MOODY AIR FORCE BASE				AIR CO	MBAT C		D		COS	
GEORGIA										0.82
6. PERSONNEL	(1) F	PERMAN	IENT	(2)	STUDEN	ITS	(3)	SUPPOR		TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-Sep-15	355	3278	367				101	961	122	5,184
	355	3252	366				83	915	117	5,088
7. INVENTORY DATA (\$000)	11 101									
	11,481 20 Sec	16								ECC 707
	30-Sep-	15 DV								200,707
				2017)						10,245
				2017)	~					30,900
e. PLANNED IN NEXT FOUR PROC		-ARS (F	Y 2018 -	FY 2021)					0
										18,300
g. GRAND TOTAL			0017)							626,212
8. PROJECTS REQUESTED IN THIS	PROGR		2017)					~	NOT.	
						60				DESIGN STATUS
CODE PRO	JECT II					7 045		<u>(\$(</u>	<u>100)</u>	START COMPLETE
141-185 Personnel Recovery 4-Bay	Hangar/	HMU				7,315	SM	30,	900	Design Bulla
										<u>-</u>
							TOTAL	. 30	900	
9. FUTURE PROJECTS IN NEXT FO	UR PRO	GRAMI	EARS	FY 2018	- FY 202	(1)				
										-
							TOTAL		0	
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	. 2	6.4	
10. MISSION OR MAJOR FUNCTION	IS									
Moody Air Force Base is home to the 2	23d Wing	and the	93d Air	Ground C	Operation	s Wing.	The mis	sion of th	ne 23d W	ing is to organize, train
and employ combat-ready A-10, HC-13	BUJ and F	HH-60 all	rcraft an	d flight cr	ews, and	parares	cuemen	i. The 93	s WG, thr	u the 820 Base Detense
Group, organizes, trains and employs i	orce pro	ection as	55615. A	uunionan	iy, the or	1 S train	is allieu		ny anu i	Haintain the A-29.
11. OUTSTANDING POLLUTION AN	D SAFE	TY DEFI	CIENCI	ES (FY 2	017 - FY	2021)				
a. Air Pollution									0	
b. Water Pollution									0	
c. Occupational Safety and Heal	th								0	
1										
d. Other Environmental									0	
							TOTAL		0	
DD Form 1390, JUL 1999			PR	EVIOUS E	DITION IS	OBSOLE	TE.			

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DAT	ГА	2. DATE		
AIR FORCE		(c	omputer gen	generated)					
3. INSTALLATION MOODY AIR FORCE MOODY AIR FORCE GEORGIA	, SITE BASE BASE	E AND LOCATION SITE # 1		4. PROJECT TITLE PERSONNEL RECOVERY 4-BAY HANGAR/HMU					
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	D/PROJECT NUMBER 8. PROJECT COST (\$000)					
27576		141-185	3020/	/QSEU0	83023	30,900			
		9. C	OST ESTIMA	TES					
		ITEM		U/M	OUANTITY	UNIT	COST		
					2		(\$000)		
PRIMARY FACILIT	IES						21,999		
MAINTENANCE HA	NGAR/H	MU/PARTS (141-185)		SM	8,648	2,375	(20,539)		
PCC AIRFIELD P.	AVEMEN	TS (112-211)		SM	3,438	287	(987)		
ACC AIRFIELD P.	AVEMEN	TS (116-642)		SM	1,472	42	(62)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(411)		
SUPPORTING FACE	LITIES						4,872		
AIRFIELD PAVEM	ENTS			LS			(849)		
UTILITIES				LS			(426)		
SITE IMPROVEME	NTS			LS			(871)		
BRIDGE CRANE				EA	2	35,000	(70)		
COMMUNICATIONS	SUPPO	RT		LS			(266)		
WETLANDS CREDI	TS			LS			(384)		
DEMOLITION				SM	2,140	344	(736)		
ROADS AND PARK	ING			LS			(507)		
STORMWATER SYS	TEM			LS			(763)		
SUBTOTAL						=	26,871		
CONTINGENCY	(5.0%)					1,344		
TOTAL CONTRACT	COST					-	28,214		
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				1,608		
DESIGN/BUILD -	DESIGN	COST (4.0% OF S	SUBTOTAL)				1,075		
TOTAL REQUEST							30,897		
TOTAL REQUEST (1	ROUNDE	D)					30,900)		
EQUIPMENT FROM	OTHER	APPROPRIATIONS (NON-	ADD)				(1,925		
10. Descripti and aircraft p slab, structur including high landscaping, r pavement, ligh necessary. Wo traffic patter vehicle pavement	on of oarts cal st coads/ nting ork wi cn requests,	Proposed Construct store. Work inclu- ceel frame, standin unsion foam system parking, hangar ap and markings, comm .11 include extensi puired around new a curb and gutter, m	ction: Pr udes reinf ng seam me in the ha pron-airfi nunication ion of ins apron-airf marking, a	ovide orced tal r ngar eld a s sup talla ield nd li	a combine coof, fire bay area, ccess pave port, and tion roadw access pav ghting. D	ed hangar/HMU foundation a detection/pr utilities, ments, taxiv all other su vays to accom- rements, to i pemolish exis	y facility and floor cotection, yay upport as modate new .nclude sting parts		
store for 2,14	40 SM.	Facilities will	be design	ed as	permanent	constructio	on in		

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.

accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building

Air Conditioning: 90 Tons

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE MOODY AIR FORCE BASE PERSONNEL RECOVERY 4-BAY HANGAR/HMU MOODY AIR FORCE BASE SITE # 1 GEORGIA 5. PROGRAM ELEMENT 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) 6. CATEGORY CODE 27576 141-185 3020/QSEU083023 30,900 11. Requirement: 8648 SM Adequate: 0 SM Substandard: 7134 SM PROJECT: Personnel Recovery Consolidated 4-Bay Maintenance Hangar / Helicopter Maintenance Unit (HMU) / Parts Store Facility. (Current Mission) **<u>REQUIREMENT:</u>** Adequately sized and properly configured 4-Bay Maintenance Hangar/HMU, is required for phase maintenance functions and general back shops in support of the Personnel Recovery mission assigned to Moody AFB. Hangar space is required for on-going flightline and phase maintenance for assigned helicopter assets. Space will meet all facility requirements established in Unified Facilities Criteria (UFC) 3-260-01, Airfield and Heliport Planning and Design, to include airfield and hangar clearances. The associated HMU requires an organizational facility to serve as the main control point for all HMU and Phase Maintenance activities including administration, scheduling, training, briefing, and aircraft equipment/tool storage. Additionally, per AFM 32-1084, paragraph 3.1.6, the HMU will include general purpose maintenance shops for weapons storage, weapons maintenance, and other unique weapon platform systems that require offaircraft actions and procedures. Space must be provided for the OIC, NCOIC, scheduling production, section flight chiefs and staff. Space is also required for test/support equipment and tools to support all mission taskings. Equipment includes items such as aircraft test equipment, maintenance tools, mobility pallets, and Technical Order 1H60(H)G-21 aircraft equipment such as hoists, seats, and exhaust/inlet covers. The parts store will directly support both the HH-60 HMU and the HC-130 AMU per the standards in AF Manual 32-1084, Chapter 4.3. CURRENT SITUATION: Current facilities for HH-60 maintenance are WWII and Korean War era facilities in poor condition with high energy and sustainment costs. Facilities are located within 1000 ft of RWY 36L and, along with the aircraft parked on the adjoining apron, are in violation of UFC 3-260-01, Airfield and Heliport Planning and Design. The facilities and apron could not be constructed and used under current guidelines without a permanent waiver and must be programmed for replacement when they reach the end of their expected life. Hangars are well beyond their expected life - at 73 and 60 years respectively. Parked helicopters barely meet required minimum spacing for taxiing fixed wing HC-130 and A-10 aircraft, as well as larger transient aircraft. This puts maintenance personnel, aircrews, and aircraft at high risk to injury/damage from on-going maintenance/flight operations. Hangars do not meet interior clearance requirements per UFC 3-260-01. Waivers are required for continued use due to significant concerns for safe operations, and maintenance actions require additional precautions when maneuvering helicopters and working around, or on top of, the helicopters due to the proximity of structural roof trusses and columns. Rotor blade tip covers have been damaged during helicopter movement and functional checks due to lack of proper clearance. Workarounds include towing helicopters out of the hangars to avoid damage during maintenance/repairs and towed back in, with wingwalkers, sometimes several times per repair. Current facilities have inadequate fire protection systems. Additionally, they are not collocated on the flightline (approximately 1/4 mile apart), resulting in lost synergy in use of personnel and equipment to support high ops tempo for critical high demand/low density Air Force

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE MOODY AIR FORCE BASE PERSONNEL RECOVERY 4-BAY HANGAR/HMU MOODY AIR FORCE BASE SITE # 1 GEORGIA 5. PROGRAM ELEMENT 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) 6. CATEGORY CODE 27576 141-185 3020/QSEU083023 30,900 resources. IMPACT IF NOT PROVIDED: Time-consuming workarounds to prevent helicopter damage due to inadequate structural clearances will continue to slow maintenance operations and restrict productivity of maintenance personnel striving to support

high ops tempo. Facility operation and sustainment costs will continue to be disproportionate to the facilities' size and function. Sustained use of aprons that violate current airfield criteria will continue to expose aircraft and personnel to increased hazards due to close proximity of parked aircraft to active taxiways and runways. Overall mission effectiveness will continue to be degraded and hamper the wing's ability to prepare and meet on-going COCOM wartime commitments. Without the relocation of the parts store, the location of the hangar/HMU will require nearly double the airfield access pavements, an increased initial cost, as well as on-going costs due to manhour costs of maintenance and operational personnel due to the distance of the hangar/HMU from the parking apron. The reduced access pavement footprint will also reduce the impact to adjoining wetlands, and is therefore seen as the most viable alternative for siting. <u>ADDITIONAL:</u> This project meets the applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. A preliminary analysis of reasonable

Force Manual 32-1084, Facility Requirements. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated that there is only one option that will meet operational requirements: new construction. Therefore, no economic analysis was needed or performed, and a certificate of exception is being prepared. Base Civil Engineer: (229) 257-3601. Personnel Recovery Hangar/HMU/Parts Store: 8,648 SM = 93,052 SF.

<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.

1. COMPONENT AIR FORCE		FY 2017 MILITARY ((comput	CONSTRU	UCTION PRO	JECT	DATA	2. DATE
3. INSTALLATI	ON AND L	OCATION		4. PROJEC	יד די	т. Е	
MOODY AIR FOR MOODY AIR FOR GEORGIA	CE BASE CE BASE	SITE # 1		PERSONNEI	L RECO	DVERY 4-BAY H	ANGAR/HMU
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUM	IBER	8. PROJECT CC	OST (\$000)
27576		141-185	302	0/QSEU0830	023	30,	,900
12. SUPPLEMEN	TAL DAT	A:					
a. Estimate	d Desigr	Data:					
(1) Projec	ct to be	accomplished by de	esign-	build proc	cedure	25	
(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					1,236
(4) Const:	ruction	Contract Award					17 FEB
(5) Const:	ruction	Start					17 MAR
(6) Const:	ruction	Completion					19 MAR
(7) Energ	y Study/	Life-Cycle analysi:	s was/	will be pe	erfor	ned	YES
b. Equipmen	t associ	ated with this pro	ject p	provided f	rom o	ther appropri	ations:
EQUIPMENI	NOMENCI	PRO	CURING	APPRC	FISCA APPRO OR RE	L YEAR PRIATED QUESTED	COST (\$000)
COMMUNIC	TION EQ	JIPMENT	308	0	2	018	275
FURNISHIN	IGS AND	FIXTURES	340	0	2	018	1,650

1. COMPONENT	F١	2017 V			STRUC		ROGRA	м	2. DAT	E (YYYMMDD)
AIR FORCE	-									
3. INSTALLATION AND LOCATION				4. COM	MAND				5. ARE	A CONSTRUCTION
MCCONNELL AIR FORCE BASE				AIR MOE	BILITY C		١D		COS	
KANSAS	<i>(</i> 1) =			(-) ((2) 0			0.92
6. PERSONNEL	(1) P	ERMAN	ENT	(2) \$	STUDEN	ITS	(3) S	UPPOR	TED	TOTAL
40.05	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	5 700
a. AS OF 30-Sep-15	367	2498	420	0	0	0	269	1675	474	5,703
	367	2415	414	0	0	0	269	1673	451	5,589
2. TOTAL ACREACE	2 615									
	3,015 20 Son	15								1 505 004
		DV								1,020,204
				2017)						200,000
a. AUTHORIZATION REQUESTED			AIVI (F1)	2017)						19,000
e. PLANNED IN NEXT FOUR PROG		AK3 (F	1 2010-2	2021)						14,000
										1 815 93/
8 PRO JECTS REQUESTED IN THIS	PROCR		2017)							1,010,004
			2017)					0.0	ST	DESIGN STATUS
		TF				sco	DPF	(\$0	00)	
112-211 KC-46A REPAIR TAXIWA	/ DEL TA					11 677	SM	56	00)	Design Build
149-962 AIR TRAFFIC CONTROL						42	VM	11 :	200	Design Build
171-212 KC-46A ADAL FLIGHT SIM		R PH 2				3 139	SM	3.0	00	11/15 09/16
							TOTAL	19,	800	-
9. FUTURE PROJECTS IN NEXT FO	UR PRO	GRAM Y	EARS (FY 2018-	FY 2021)				
171-475 COMBAT ARMS FACILITY	,					28	PT	14,0	000	
							-			_
							TOTAL	14,0	000	
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	3.	.0	
10. MISSION OR MAJOR FUNCTION	S									
McConnell Air Force Base is the host to	o the 22n	d Air Re	fueling V	Ving (ARV	N) and h	nome to t	he 184 A	RW and	931 AR	RG. The wing's primary
mission is to provide Global Reach by o	conductin	g air ref	ueling ar	nd airlift w	hen and	whereve	er neede	d. To do	this the	wing is charged to
develop and maintain the capability to c	conduct a	ir refueli	ng opera	ations sup	porting	comman	d objectiv	ves in an	y part of	f the world, in any condition
11. OUTSTANDING POLLUTION AN	D SAFE	Y DEFI	CIENCIE	ES (FY 20	017 - FY	2021)				
a. Air Pollution								C)	
b. Water Pollution								C)	
	u								`	
c. Occupational Safety and Heal	m							(J	
d Other Environmental								r)	
								(,	
							τοται)	-
				DITIONUO	00001	-	. VIAL		•	

DD Form 1390, JUL 1999

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE		
AIR FORCE		(c	omputer gen	erate	d)				
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	3			
MCCONNELL AIR FO	ORCE E	BASE		AIR 1	RAFFIC CONT	ROL TOWER			
MCCONNELL SITE	# 1								
KANSAS									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/1	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
41976		149-962	2786/	PRQE1	.05144		11,200		
		9. C		·					
		ттем		TT/M	OIIANTTTY	UNIT	COST		
				0,11	QUANIIII		(\$000)		
PRIMARY FACILITI	ES						5,487		
AIR TRAFFIC CON	NTROL	TOWER (149-962)		VM	42	119,447	(5,017)		
TORNADO SHELTER	R (738	-401)		SM	75	4,840	(363)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(108)		
SUPPORTING FACIL	LITIES						4,207		
ELEVATOR				LS			(450)		
EMERGENCY GENER	RATOR			LS			(500)		
UTILITIES				LS			(995)		
PAVEMENTS				LS			(280)		
SITE IMPROVEMEN	TS			LS			(350)		
SPECIAL FOUNDAT	TION S	YSTEM		LS			(300)		
ACCESS ROADWAY				LS			(250)		
DEMO CONTROL TO	WER			VM	27	10,389	(281)		
HORIZONTAL DEMO	5			LS			(350)		
COMMUNICATIONS				LS			(451)		
SUBTOTAL							9,694		
CONTINGENCY	(5.0%))					485		
TOTAL CONTRACT C	'OST	,					10 179		
SUDEDVISION INS		ON AND OVERUEAD	(5.7%)				580		
DESIGN/BUILD - D	DESTGN	COST (4.0% OF S	(J. 7%)				388		
TOTAL REQUEST	20101		,02101111,				11.147		
TOTAL REQUEST (R		נח					11 200		
			(חחג				1 200)		
	- 111EK	AFFROFRIATIONS (NON-		<u> </u>	<u> </u>		(1,395		
10. Descripti concrete found suppression sy	on of ation stems	Proposed Construct a, steel framing, r a, HVAC, emergency	ction: Air masonry wal power, ele	r Tra lls, evato	ffic Contr metal roof or, utiliti	col Tower co , fire dete les, site in por Plda 70	onsisting of ection and mprovements,		
Facilities wil	l be	designed as perman	nent constr	ructi	on in acco	ordance with	n 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 Susta	inable Buil	lding	Requireme	ents. This	project		
will comply wi	th Do	D antiterrorism/fo	orce prote	ction	requireme	ents per UFC	2 4-010-01.		
Air Conditionin	ng:	70 Tons							
11. Requiremen	t: 42	VM Adequate: (0 VM Sul	ostan	dard: 27 V	7M			
PROJECT: Cons	truct	a new Air Traffic	Control	ſower	. (Currer	nt Mission)			
REQUIREMENT:	Const	ruct air traffic d	control to	wer w	hich will	consist of	10 stories		
and control ca	b. Th	e facility will p	rovide a mo	odern	and appro	opriately si	zed air		
traffic contro	l tow	ver required to mee	et Air Ford	ce an	d Federal	Aviation			
DD FORM 1391, 1	DEC 9	9 Previou	is editions	s are	obsolete.		Page No.		

FEBRUARY 2016

AIR FORCE	(c	(computer generated)								
3. INSTALLATION,	SITE AND LOCATION		4. PROJECT TITLE	:						
MCCONNELL AIR FO	RCE BASE		AIR TRAFFIC CONT	ROL TOWER						
MCCONNELL SITE #	1									
KANSAS										
5. PROGRAM ELEME	NT 6. CATEGORY CODE	8. PROJECT CO	OST (\$000)							
41976	149-962	2786	/prge105144	11	,200					
Administration	standards for safety,	effective	ness, and effic	iency.						
CURRENT SITUATI	ON: The existing cont	trol tower	facility, buil	t in 1969, r	equires					
frequent mainte	enance as it is rapidly	y deterior	ating beyond th	e 35 year li:	fe					

FY 2017 MILITARY CONSTRUCTION PROJECT DATA

expectancy. A facility structural wind load study was conducted in January 2010. The wind load factor of safety requires controllers to evacuate once wind speeds reach 70 mph (greater than 50 knots). New equipment requirements challenge both the capacity of the tower cab and underlying office space. The radio equipment room does not meet the National Electric Code requirement of 30 inch walk space between racks and walls. Furthermore, equipment upgrades have required equipment to be installed in existing usable office space on three floors in the tower.

IMPACT IF NOT PROVIDED: Facility will require significant structural repair to the original facility. These repair costs far exceed plant replacement value. Continued evacuation of controllers when wind speeds exceed safety limits requires airspace responsibility transfer, several notifications, and Air Traffic Information Service updates. There will be a continued violation of the National Electric Code walking space requirement. The existing control tower will continue to deteriorate and user space will continue to be insufficient.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084." Facility Requirements." An economic analysis has been waived due to the cost of repair exceeding the plant replacement value and cost of new construction, as well as the unfeasibility of leasing. New construction is the most cost efficient solution over the life of the facility. Base Civil Engineer: (316) 759-5750. Air Traffic Control Tower: 42 Vertical Meters = 138 Vertical Feet; Tornado Shelter = 75 SM = 810 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.

88

1. COMPONENT

. INSTALLATI		\	5,				
• INSIVUTATI			4 550				
	ION AND LOCAT	ION	4. PROL	ECT TIT	LE moure	-	
ICCONNELL AIF	R FORCE BASE		AIR TRA	FFIC CC	NTROL TOWE	R	
CANSAS							
5. PROGRAM EI	LEMENT 6.	CATEGORY CODE	7. PROJECT N	UMBER	8. PROJECT	COST	(\$000)
41976		149-962	2786/PRQE10	05144	1	11,200	0
12. SUPPLEME	NTAL DATA:		1				
a. Estimate	ed Design Dat	a:					
(1) Proje	ect to be acc	omplished by de	sign-build pr	cocedure	s		
(2) Basis	3:						
(a) S (b) W	tandard or De here Design V	efinitive Design Nas Most Recent	n - ly Used -				NO
(3) All C	ther Design	Costs					445
(4) Const	ruction Cont	ract Award				17	MAR
(5) Const	ruction Star	t				17	MAY
(6) Const	ruction Comp	letion				18	SEP
(7) Energ	y Study/Life	-Cycle analysis	wag/will be	nonform	J		VEC
b. Equipmer	nt associated	with this pro	ject provided	from o FISCA	ther approp	oriati	lons:
b. Equipmen EQUIPMEN	nt associated T NOMENCLATUR	l with this pro: PROC RE	ject provided CURING APPRC	from o FISCA APPROI OR REG	ther approp L YEAR PRIATED QUESTED	oriati	COST (\$000)
b. Equipmen EQUIPMEN UNINTERR	nt associated T NOMENCLATUF UPTIBLE POWEI	l with this prop PROC RE R SUPPLY	ject provided CURING APPRC 3080	from o FISCA APPROI OR REG	ther approp L YEAR PRIATED QUESTED 018	oriati	COST (\$000) 20
b. Equipmen EQUIPMEN UNINTERR INITIAL	nt associated T NOMENCLATUF UPTIBLE POWEF OPERATING EQU	with this prop PROC RE R SUPPLY JIPMENT	ject provided CURING APPRC 3080 3080	from o FISCA APPROI OR REG 2 2	ther approp L YEAR PRIATED QUESTED 018 018	oriati	COST (\$000) 20 515
b. Equipmen EQUIPMEN UNINTERR INITIAL A6 COMMUN	nt associated T NOMENCLATUF UPTIBLE POWEF OPERATING EQU NICATION (SW)	with this prop PROC RE R SUPPLY JIPMENT TTCHES)	ject provided CURING APPRC 3080 3080 3080	from o FISCA APPROI OR REG 2 2 2	ther approp L YEAR PRIATED QUESTED 018 018	priati	COST (\$000) 20 515 25
b. Equipmen EQUIPMEN UNINTERR INITIAL A6 COMMU FURNITUR	nt associated T NOMENCLATUF UPTIBLE POWEF OPERATING EQU NICATION (SW1 E	with this prop PROC RE R SUPPLY JIPMENT (TCHES)	ject provided CURING APPRC 3080 3080 3080 3400	from o FISCA APPROI OR REG 2 2 2 2 2	ther approp L YEAR PRIATED QUESTED 018 018 018	priati	COST (\$000) 20 515 25 130

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DA	2. DATE		
AIR FORCE		(c	omputer gen	erate	d)			
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	:	1	
MCCONNELL AIR F MCCONNELL SITE KANSAS	ORCE E # 1	BASE		KC-46	A ADAL TAXI	WAY DELTA		
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	T COST (\$000)	
41221		112-211	2786,	PRQE1	.75112	5,600		
		9. C	OST ESTIMA	TES	, , , , , , , , , , , , , , , , , , , ,			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)	
							(7000)	
ALTER TAXIWAY D	ELTA						2,432	
TAXIWAY (11221)	1)			SM	7,402	185	(1,369)	
ASPHALT SHOULD	ERS (1	16642)		SM	4,275	90	(385)	
TAXIWAY EDGE L	IGHTIN	G AND CABLING (13666	57)	м	2,296	274	(629)	
SUSTAINABLITY .	AND EN	ERGY MEASURES		LS			(49)	
SUPPORTING FACI	LITIES						2,425	
TAXIWAY DEMOLI	TION			SM	7,402	144	(1,069)	
SHOULDER DEMOL	ITION			SM	6,019	147	(887)	
SITE RESTORATIO	ON			LS			(400)	
AIRFIELD MARKI	NG AND	SIGNAGE		12			(69)	
SUBTOTAL							4,857	
CONTINGENCY	(5.0%))					243	
TOTAL CONTRACT (COST						5,100	
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				291	
DESIGN/BUILD - I	DESIGN	COST (4.0% OF 5	SUBTOTAL)				<u>194</u>	
TOTAL REQUEST		נח					5,585	
10 Descripti		Proposed Constru	ation. Pe		+aviwav a	nd shoulder	c pavement	
and install ta	.on or xiway	redge lighting fro	om Taxiway	Alph	a to 150 f	eet west of	E Runway	
19L/01R (East	Runwa	y). Repair frang:	ibility vi	olati	ons and in	stall new o	directional	
signage. Faci	litie	s will be designed	d as perma	nent	constructi	on in accor	rdance with	
the DoD Unifie	d Fac	ilities Criteria	(UFC) 1-20	0-01,	General E	Building Red	quirements	
and UFC 1-200-	·02, H omply	lign Performance an with DoD antiter	nd Sustain	abie ce pr	Building R	equirements	s. This s per UEC 4-	
010-01.	,omb i l		01101	cc pr	000001011	equil emeries		
11. Requirement	nt: 15	701 SM Adequate	e: 8299 SM	S	ubstandard	l: 7402 SM		
PROJECT: KC-4	6A Al	ter Taxiway Delta	(New Miss	ion)				
REQUIREMENT:	The f	irst KC-46A tanke	r aircraft	are	expected t	o arrive th	ne second	
quarter of FY1	.6, wi	th a total beddown	n of 36 Pr	imary	Assigned	Aircraft ()	PAA). An	
airfield compl	iant	with UFC 3-260-1,	Airfield	and H	leliport Pl	anning and	Design	
Criteria and U	JFC 3-	535-01, Design Sta	andards to	r V1S maint	ual Air Na ainable ar	vigation is	3 a al taviway	
with paved sho	ulder	s and edge lightin	ng meeting	curr	ent UFC re	quirements	. cuntway	
CURRENT SITUAT	ION:	Taxiway Delta doe	es not com	ply w	vith UFC cr	iteria for	shoulders	
(25 feet) and	edge	lighting. Existin	ng shoulde	rs ar	e the remr	ants of a 2	1950,s	
runway and are of the taxiway aircraft movem	too . Th nents.	wide (50 feet). I lese UFC violations The existing tax	No taxiway s limit th siway conc	edge e use rete	e lighting e of Taxiwa slabs have	exists on (y Delta to reflective	this portion daylight a and	
DD FORM 1391,	DEC 9	9 Previou	s editions	s are	obsolete.		Page No.	

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION PROJECT DAT	ГА	2. DATE
AIR FORCE		(c	omputer gen	nerated)		
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE	1	
MCCONNELL AIR F MCCONNELL SITE KANSAS	ORCE E # 1	ASE		KC-46A ADAL TAXI	WAY DELTA	
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	OST (\$000)
41221		112-211	2786	/PRQE175112	5	,600
distress crack Existing signa <u>IMPACT IF NOT</u> 46A wheel load will become pr consistent edg condition will adverse weather continuously r requirements w risk of flying <u>ADDITIONAL:</u> T 32-1084, Facil prepared for co and new constr Engineer: Com 4,275 SM = 5,1 <u>JOINT USE CERT</u> and does not q installation a	ing w ge is <u>PROVI</u> ing a obabl e lig cont r con equir ill c oper his p uctio merci 13 SY <u>IFICA</u> ualif re be	th Pavement Condi- not sufficiently <u>DED:</u> Taxiway Delt nd Kansas freeze/t e as maintenance of hting clearance and inue to add to the ditions. Large so red. Taxiway confi- ontinue to add con- ations under adver roject meets the of equirements. An ex- ing alternatives of n. Alteration was al (316) 759-5750. <u>TION:</u> This is an if y for joint use at nefited by this pr	ition Inde lighted, a will ra chaw weath crews prov d unrelia e risk of cale maint iguration fusion to rse weathe criteria/s economic a of status s found to . Taxiway installati this loc roject.	x (PCI) ratings frangible nor o pidly deteriora er conditions. ide temporary r ble lighting th flying operatio enance of paven that is not com pilots and ind r conditions. cope specified nalysis of reas quo, renovation be the best so : 7,402 SM = 8 on utility/infr ation. However,	s of Fair to optimally loca optimally loca ite under inter- Foreign obje- repairs. Lack at is in poor ons, especial in a surfaces option with the rease the option and the	Good. ated. ensive KC- ect damage k of r ly under will be UFC erational Manual ns was lteration, se Civil ulder: roject, on this

. INSTALLATION AND	LOCATION	4. PROJECT TI	ITLE	
CCONNELL AIR FORCE	BASE	KC-46A ADAL I	TAXIWAY DELTA	
CCONNELL SITE # 1				
ANSAS				
. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT CO	ST (\$000)
41221	112-211	2786/PRQE175112	5,6	500
2. SUPPLEMENTAL DAT	ſA:			
a. Estimated Desig	n Data:			
(1) Project to b	e accomplished by de	sign-build procedur	res	
(2) Basis:				
(a) Standard	or Definitive Design	n -		YES
(b) Where Des	sign Was Most Recent	ly Used -	DEVELOPED FOR	KC-46A
(3) All Other De	sign Costs			141
(4) Construction	Contract Award			17 MAR
(5) Construction	Start			17 APR
				10 000
(6) Construction	Completion			18 SEP
(6) Construction(7) Energy Studyb. Equipment associationN/A	Completion /Life-Cycle analysis	was/will be perfor	rmed other appropria	NO
 (6) Construction (7) Energy Study b. Equipment assoc N/A 	Completion /Life-Cycle analysis	was/will be perfor	rmed other appropria	NO ations:
 (6) Construction (7) Energy Study b. Equipment assoc N/A 	Completion /Life-Cycle analysis	was/will be perfor	rmed other appropria	NO ations:
(6) Construction(7) Energy Studyb. Equipment assocN/A	Completion /Life-Cycle analysis	was/will be perfor	rmed other appropria	NO ations:
 (6) Construction (7) Energy Study b. Equipment association N/A 	Completion /Life-Cycle analysis	was/will be perfor	rmed other appropria	NO ations:
 (6) Construction (7) Energy Study b. Equipment assoc N/A 	Completion /Life-Cycle analysis	was/will be perfor	rmed other appropria	NO ations:
 (6) Construction (7) Energy Study b. Equipment assoc N/A 	Completion /Life-Cycle analysis	was/will be perfor	rmed other appropria	NO ations:
 (6) Construction (7) Energy Study b. Equipment assoc N/A 	Completion /Life-Cycle analysis	was/will be perfor	rmed other appropria	NO ations:
<pre>(6) Construction (7) Energy Study b. Equipment assoc N/A</pre>	Completion /Life-Cycle analysis	was/will be perfor	rmed other appropria	NO ations:
 (6) Construction (7) Energy Study b. Equipment assoc N/A 	Completion /Life-Cycle analysis	was/will be perfor	rmed other appropria	NO ations:
 (6) Construction (7) Energy Study b. Equipment assoc N/A 	Completion /Life-Cycle analysis stated with this pro:	was/will be perfor	rmed other appropria	NO ations:
 (6) Construction (7) Energy Study b. Equipment assoc N/A 	Completion /Life-Cycle analysis stated with this prop	was/will be perfor	rmed other appropria	NO ations:
<pre>(6) Construction (7) Energy Study b. Equipment assoc N/A</pre>	Completion /Life-Cycle analysis	was/will be perfor	rmed other appropria	NO ations:
<pre>(6) Construction (7) Energy Study b. Equipment assoc N/A</pre>	Completion /Life-Cycle analysis stated with this pro:	was/will be perfor	rmed other appropria	NO ations:
<pre>(6) Construction (7) Energy Study b. Equipment assoc N/A</pre>	Completion /Life-Cycle analysis	was/will be perfor	rmed other appropria	NO ations:

1. COMPONENT		FY 2017 MILI	TARY CONSTRU	CTION	PROJECT DA	TA	2. DATE
AIR FORCE		(computer ger	erate	d)		
3. INSTALLATION	, SITI	E AND LOCATION		4. PI	ROJECT TITL	E	·
MCCONNELL AIR F	ORCE	BASE		KC-46	A ALTER FL	IGHT SIMULATO	R BLDGS
MCCONNELL SITE	# 1						
KANSAS							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT	COST (\$000)
41221		171-212	2786/1	PRQE16	5113	3,000	
		9.	COST ESTIMA	TES			
						UNIT	COST
		ITEM		U/M	QUANTITY		(\$000)
PRIMARY FACILITI	ES						2,366
FLT SIMLTR TNG	ALTER	R BLDG 1092 (171212))	SM	1,362	725	(987)
FLT SIMLTR TNG	ALTER	R BLDG 1094 (171212))	SM	1,777	750	(1,333)
SUSTAINABILITY	AND B	ENERGY MEASURES		LS			(46)
SUPPORTING FACII	ITIES						323
PAVEMENTS				LS			(65)
SITE RESTORATIO	NC			LS			(70)
COMMUNICATIONS				LS			(188)
SUBTOTAL							2,689
CONTINGENCY	(5	5.0%)					134
TOTAL CONTRACT C	COST						2,824
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				161
TOTAL REQUEST							2,985
TOTAL REQUEST (F	ROUNDE	D)					3,000
EQUIPMENT FROM C	THER	APPROPRIATIONS (NON	I-ADD)				(21,025.0)

10. Description of Proposed Construction: Remove existing KC-135 motion pads and install new KC-46A pads to support installation of two Weapon System Trainers (WST) and a Boom Operator Trainer (BOT). Upgrade electrical and HVAC simulator support systems and existing facility utility and control systems to accommodate the new simulators. Remove existing hydraulic room, utility trenches and emergency collection system. Install new concrete flooring and separate electrical and data utility trenches to support the new simulator configurations. Upgrade interior and exterior security requirements to include walls, ceilings, doors, windows, HVAC, communication and network systems. Install Distributed Mission Operations (DMO) secure network. Repair failing wall finishes, roofing and upgrade pavements where required. Upgrade severe weather shelter, mass notification systems, fire suppression and detection systems, and adjust catwalk simulator connections. Facilities alterations 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: 426 Tons

11. Requirement: 3139 SM Adequate: 1362 SM Substandard: 1777 SM PROJECT: KC-46A Alter Flight Simulator Buildings (New Mission) REQUIREMENT: The AF designated McConnell AFB as the first main operating base for the KC-46A tanker aircraft. Aircrew training simulator device deliveries will begin in first quarter FY16 and lasting through FY18. Adequately sized and configured

1. COMPONENT	FY 2017 MILI	TA	2. DATE			
AIR FORCE	(
3. INSTALLATION,	SITE AND LOCATION					
MCCONNELL AIR FO	RCE BASE		KC-46A ALTER FLIGHT SIMULATOR BLDGS			
MCCONNELL SITE #	: 1					
KANSAS						
5. PROGRAM ELEME	NT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER 8. PROJEC			OST (\$000)	
41221	171-212	2786/1	,000			

Flight Training facilities are required to support operation of three Weapon System Trainers (WST), a Pilot Part Task Trainer (PPTT), two Boom Operator Trainer (BOT) devices, and associated functions to provide required aircrew training for the new KC-46A aircraft. This project alters existing KC-135 simulator bays and contiguous areas and provides secure space for two WSTs and two BOTs, parts storage, briefing rooms, classrooms, aircrew learning center, mechanical room, computer room and offices. Project also provides security enhancements to allow for handling and discussion of classified training material.

CURRENT SITUATION: By Feb 2016 McConnell AFB will have one KC-46A WST, one KC-46A BOT and a KC-46A PTTT in place with the remaining simulator bays occupied by two KC-135 WST's and one Boom Operator Weapon System Trainer (BOWST). The KC-135 trainers need to be relocated to provide the required space for the installation of the new KC-46A simulators. There are no other facilities in the Air Force capable of providing flight simulation and boom operation training for the KC-46A weapon system.

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 will place active KC-46A assets at higher risk of damage due to training accidents. On-the-job training will also result in higher fuel costs to the AF. ADDITIONAL: This project meets the applicable criteria/scope specified in Air Force Manual 32-1084 "Facility Requirements" and the KC-46A Facility Requirements Plan. An economic analysis of reasonable options for comparing alternatives of status quo, renovation, addition/alteration, and new construction was prepared. Alteration was found to be the best solution. Civil Engineer: Commercial (316) 759-5750. (Flight Training: 3,139 SM = 33,788 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 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated)												
3. TNSTALLATT	N AND LOCATION		4	DROTECT 1	רדייד.פ							
MCCONNELL AIR MCCONNELL SIT KANSAS	FORCE BASE 5 # 1		ĸc	C-46A ALTER	R FLIGHT SIMUI	LATOR BLDGS						
5. PROGRAM EL	EMENT 6. CATEGORY	CODE	7. PROJEC	T NUMBER	8. PROJECT CC	DST (\$000)						
41221	171-212	2	2786/PR	QE165113	3,	000						
12. SUPPLEMEN	TAL DATA:											
a. Estimate	d Design Data:											
(1) Statu	S:											
(a) Da	te Design Started				26	-NOV-15						
(b) Pa	rametric Cost Estimat	es usec	l to deve	lop costs		YES						
* (c) Pe	rcent Complete as of	01 JAN	2016			15%						
* (d) Da	te 35% Designed				11	-MAY-16						
(e) Da	te Design Complete				21	-SEP-16						
(f) En	ergy Study/Life-Cycle	analys	∃is was∕w	ill be per	formed	YES						
(2) Basis	:											
(a) St (b) Wh	andard or Definitive ere Design Was Most R	Design Recently	- 7 Used -			NO						
(3) Total	Cost (c) = (a) + (b)	or (d)) + (e):			(\$000)						
(a) Pr	oduction of Plans and	l Specif	Eications			180						
(b) Al	l Other Design Costs					90						
(c) To	tal					270						
(d) Co	ntract					225						
(e) In	-house					45						
(4) Const	ruction Contract Awar	d				17 MAR						
(5) Const	ruction Start					17 MAY						
(6) Const	ruction Completion					18 SEP						
* Indicat which i cost an b. Equipmen	es completion of Proj s comparable to tradi d executability. t associated with thi	ect Def tional. s proje	Einition 35% desi ect provi	with Param gn to ensu ded from c	etric Cost Es re valid scop other appropri	timate e, ations:						
EQUIPMENI	' NOMENCLATURE	PR APPI	.OCURING ROPRIATIO	FISCA APPRO N OR RE	AL YEAR PRIATED QUESTED	COST (\$000)						
WEAPON SY	STEM TRAINERS (WSTS)		3010	2	016	15.600						
BOOM OPER	ATOR TRAINER (BOT)		3010	- 2	2016	4 900						
USER COMM			2400	A6 COMM (SWITCHES) 3400 2018 110								
USER COMM A6 COMM (SWITCHES)		3400	2	018	110						

1. COMPONENT AIR FORCE	FY	2017 N	IILITAF		STRUC	TION PI	ROGRA	М	2. DAT	E (YYYMMDD)
3. INSTALLATION AND LOCATION				4. COM	MAND				5 ARE	
BARKSDALE AIR FORCE BASE							BIKE	,	COS	TINDEX
LOUISIANA				COMMA	ND					0.84
6. PERSONNEL	(1) P	ERMAN	ENT	(2) \$	STUDEN	TS	(3) S	UPPOR	ΓED	TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL
a. AS OF 30-Sep-15	1116	6803	1363	49	6	1	3	6	9	9,356
b. END FY 2021	1097	6745	1324	49	6	1	3	6	9	9,240
7. INVENTORY DATA (\$000)										
a. TOTAL ACREAGE	21,844									
b. INVENTORY TOTAL AS OF	30-Sep-	15								2,145,311
c. AUTHORIZATION NOT YET IN II	NVENTO	RY								23,500
d. AUTHORIZATION REQUESTED	IN THIS	PROGR	AM (FY	2017)						21,000
e. PLANNED IN NEXT FOUR PROC	GRAM YI	EARS (F	Y 2018	-2021)						331,000
f. REMAINING DEFICIENCY										0
g. GRAND TOTAL										2,520,811
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY	2017)							
	CAT	EGORY						CO	ST	DESIGN STATUS
<u>CODE</u> <u>PRO.</u>						SCC	<u>DPE</u>	<u>(\$00</u>	<u>()()</u>	START COMPLETE
131-111 Consolidated Communicat	ions Faci	lity				4,515	SM	21,0	000	Design Build
							_			
							TOTAL	21,0	000	
9. FUTURE PROJECTS IN NEXT FO	UR PRO	GRAM	(EARS	(FY 2018	-FY 202	1)				
215-582 Weapons Storage and Mai	ntenance	e Facility	Inc. 1			29,730	SM	100,	000	
215-582 Weapons Storage and Mai	ntenance	e Facility	Inc. 2			NA	SM	160,	000	
215-582 Weapons Storage and Mai	ntenance	e Facility	Inc. 3			NA	SM	71,0	000	
								221	000	
							IUIAL	551,	000	
R&M UNFUNDED REQUIREMENT (\$	SM)						TOTAL	60	.0	
10. MISSION OR MAJOR FUNCTION	NS									
Barksdale Air Force Base is home to t	he 2d Bo	mb Wing	(BW);	Headqua	rters, 8th	Air For	ce; and ⊢	leadqua	rters, Air	r Force Global Strike
Command and also home to the 307th	BW of A	ir Force	Reserve	e Comma	nd. The	mission	of the 2	d BW is t	to provid	de decisive nuclear
and operates three squadrons of nucle	ar-canal	ble B-52F	- Strato	fortress a	jiobal sti ircraft	The 307t	h Bomh	Anytime, Wina is a	Anywne a diverse	ere! The 20 BW maintains
maintaining 20 B-52H aircraft.	ur oupur				noran.		II Bollib	wing is t		s wing, nying and
11. OUTSTANDING POLLUTION AN	ID SAFE	TY DEFI	CIENCI	ES (FY 2	017 - FY	2021)				
a. Air Pollution								0		
b. Water Pollution								0		
								-		
c. Occupational Safety and Hea	lth							0		
								-		
d. Other Environmental								0		
							IOTAL	0		

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DAT	2. DATE		
AIR FORCE		(c	omputer gen	erate	d)			
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE		÷	
BARKSDALE AIR F	ORCE E	BASE		CONSC	LIDATED COM	MUNICATION FA	CILITY	
BARKSDALE AIR F	ORCE E	BASE SITE # 1						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27576		121 111	1421	AMTIDO	05000		21 000	
27576		131-111	1431/	AWUBU	95000	21,000		
			TINTT	COST				
		ITEM		U/M	QUANTITY	ONII	(\$000)	
PRIMARY FACILIT	IES						11,424	
CONSOLIDATED CO				SM	4,515	2 481	(11 200)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS	1,515	27101	(11,200)	
SUPPORTING FACI	LITIES						6,840	
SITE IMPROVEME	NTS			LS			(1,195)	
UTILITIES				LS			(796)	
PAVEMENTS				LS			(635)	
COMMUNICATION	SUPPOR	т		LS			(1,960)	
EMERGENCY GENE	RATOR			LS	İ	İ	(550)	
DEMOLITION				SM	6,963	245	(1,705)	
SUBTOTAL						-	18,264	
CONTINGENCY	(5.0%)					913	
TOTAL CONTRACT (COST						19,177	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				1,093	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)			-	731	
TOTAL REQUEST							21,001	
TOTAL REQUEST (I	ROUNDE						21,000)	
EQUIPMENT FROM (JTHER	APPROPRIATIONS (NON-		<u> </u>			(10,907	
10. Descripti	on of	Proposed Construction floor sla	stion: Pro	oject loped	will prov	ide a two s	tory electrical	
mechanical, co	mmuni	cations, fire dete	ection/sup	press	ion, secur	ity alarm s	ystems, and	
energy monitor	ing s	ystems. Power req	quirement :	inclu	des an eme	rgency gene	rator,	
switch gear an	d fue	l tank. Site cons	struction	to in	clude land	scaping, pa	rking lot,	
and access pav	rement	designed as permar	les demolit	tion rugti	of eight b	uildings (6 ordange with	,963 SM).	
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	nts. This	project	
will comply wi	th Do	D antiterrorism/fo	orce prote	ction	requireme	nts per UFC	4-010-01.	
Air Conditioni	ng:	350 Tons						
11. Requirement	t: 45	15 SM Adequate:	: 160 SM	Sub	standard:	6423 SM		
PROJECT: Cons	olida	ted Communications	s Facility	. (C	urrent Mis	sion).		
REQUIREMENT:	Adequ	ately sized and pr	coperly con	nfigu	red facili	ty to house	all the	
functions of t	ne 20	l Communications So	uadron (20	CS). confe	Function	al areas in s classroo	clude ms records	
staging/storag	re, co	mmunications serve	er center,	Netw	ork Operat	ions Center	(NOC),	
COMSEC vault,	and n	etwork and telepho	one switch	ing e	quipment r	ooms. As p	art of the	
consolidation	effor	t, the Command Pos	st and Cris	sis A	ction Team	(CAT) will	be located	
in the Communi	.catic	ons facility as wel	ll. This d	conso	lidation w	vill provide	the	
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1. COMPONENT AIR FORCE

(computer generated)

3. INSTALLATION, SITE AND LOCATION BARKSDALE AIR FORCE BASE BARKSDALE AIR FORCE BASE SITE # 1

4. PROJECT TITLE CONSOLIDATED COMMUNICATION FACILITY

LOUISIANA			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27576	131-111	1431/AWUB095000	21,000

security these two offices require, as well as supporting their large communications requirements.

CURRENT SITUATION: These facilities provide telephone and computer network service to over 7000 users assigned to 2d Bomb Wing, Air Force Global Strike Command, Headquarters 8th Air Force, and 307th Air Force Reserve Bomb Wing. 2 CS occupies seven buildings, all over 55-years old. This condition adversely impacts command, control, unit cohesion, and collaboration. Buildings occupied by Command Section and critical telephone and network systems do not have fire suppression systems. The age of facilities increases operations, maintenance, and energy requirements. There are continuing HVAC outages and shortages, power shortfalls, and roof leaks. Operating from multiple facilities impacts coordination and response times, and affects mission support and customer service. Response time is enhanced when infrastructure equipment, material, and personnel resources are in one location. Consolidating functions will improve manpower efficiency. The current Command Post is operating out of a converted morgue in B3433, necessitated by AFGSC bed-down. An additional primary justification for the new communication facility is an AT/FP concern with having critical communications assets within 20 feet of some of the busiest streets on the base. When we increase the Force Protection condition, these streets must be closed thus increasing traffic through base housing. IMPACT IF NOT PROVIDED: Mission critical Command and Control (C2) communications, which include the Defense Red Switch Network, Joint Worldwide Intelligence Communications System, Worldwide Secret Internet Protocol Router Network and Local Secret Internet Protocol Router Networks, will continue to be subjected to an unacceptable risk for mission degradation due to substandard force protection and limited flexibility for future growth and expansion. This translates into a limited information assurance posture and the inability to operate and maintain critical C2 assets to meet current mission requirements for the 2 BW, AFGSC, HQ 8 AF, 307th BW, USSTRATCOM, 608 AOC and 8 AF Task Force 204. These units provide direct support to the Nuclear Deterrence mission of the United States and the Air Force. As such, any failure experienced by the communications that support these units would hinder their ability to execute their missions. The 2d Communication Squadron will continue to expend valuable resources operating in separated and inadequate buildings.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." Consultation was done with the State Historic Preservation Office (SHPO) because buildings are in the historic district, but they are not historic. The SHPO had a determination of no adverse effect. preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction) indicated there is only one option that will meet operational requirements: new construction. A certificate of exception has been prepared. Base Civil Engineer: (318) 456-4856. Consolidated Communications Facility: (4,515 SM = 48,600 SF)

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

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated)												
3. INSTALLATIO	3. INSTALLATION AND LOCATION 4. PROJECT TITLE											
BARKSDALE AIR BARKSDALE AIR LOUISIANA	FORCE B	ASE ASE SITE # 1		CONSOLIDATED	COMMUNICATION	FACILITY						
5. PROGRAM ELE	MENT	6. CATEGORY COD	DE 7. P	ROJECT NUMBER	8. PROJECT CC	ST (\$000)						
27576		131-111	143	1/AWUB095000	21,	000						
12. SUPPLEMENTAL DATA:												
a. Estimated	a. Estimated Design Data:											
(1) Projec	t to be	accomplished by	design-	build procedur	es							
(2) Basis: (a) Sta (b) Wha	andard o ere Desi	or Definitive Des ign Was Most Rece	ign - ntly Use	ed -		NO						
(3) All Ot	her Des	ign Costs				800						
(4) Constr	uction	Contract Award				17 MAR						
(5) Constr	uction	Start				17 APR						
(6) Constr	uction	Completion				18 MAY						
(7) Energy	Study/	Life-Cycle analys	sis was/	will be perfor	med	YES						
EQUIPMENT	NOMENCI	PI	ROCURING	FISC APPRC APPRC OR RE	AL YEAR DPRIATED EQUESTED	COST (\$000)						
COMMUNICA	TIONS E	QUIP	308	0 2	2018	10,000						
FURNISHING	3s		340	0 2	2018	907						

INSTRUCTION 4. COMMAND S. AREA CONSTRUCTION JOINT BASE ANDREVS AIR FORCE DISTRICT OF S. AREA CONSTRUCTION JOINT BASE ANDREVS (1) PERMANENT (2) STUDENTS (3) SUPPORTED 1.01 6. PERSONNEL (1) PERMANENT (2) STUDENTS (3) SUPPORTED 1.01 a. AS OF 30-Sep-15 1597 6894 2178 0 448 0 2076 1899 0 15.66 END FV 2021 1798 6894 2446 0 448 0 2078 1899 0 15.66 END FV 2021 1778 6694 2446 0 448 0 2078 1899 0 15.66 INVENTORY DATA (\$2000) a TOTAL CREAGE 6.857 3.678.00 2.878.00 2.878.00 2.878.00 2.878.00 2.878.00 2.878.00 2.878.00 2.878.00 2.878.00 2.878.00 2.878.00 2.878.00 2.878.00 2.878.00 2.878.00 2.878.00 2.878.00 2.878.00 2.87	1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROGRAM								E (YYYMME 201509	DD) 11	
JOINT BASE ANDREWS APE FORCE DISTRICT OF WASHINGTON COST MOEX 1.01 6 PERSONNEL (1) PERMANENT (0) STUDENTS (0) ST	3 INSTALLATION AND LOCATION									5 ADE		
MARYLAND TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL MARYLAND	IOINT BASE ANDREWS									5. ARE		
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Or PERMET (r) PERM		(1) E			(2)	STUDEN	ITS	(2) 9			1.01	
A.S.O.F. 30-Sep-15 1597 6894 2178 0 448 0 2078 1858 0 15.05/ N.NENTORY DATA (5000) a. TOTAL ACREAGE 6.857 0 1358 0 1358 0 15.887 A.NUTHORIZATION NOT YET IN INVENTORY 288,000 3.677,007 288,000 3.677,007 16.600 A.UTHORIZATION NEQUESTED IN THIS PROGRAM (FY 2017) 16.600 148,000 148,000 0 148,000 0 148,000 0 148,000 0 148,000 0 148,000 0 148,000 0 148,000 <t< td=""><td>0. FERSONNEL</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>тс</td><td>DTAL</td></t<>	0. FERSONNEL										тс	DTAL
a. AS OF 30:39(1)3 1330 1039 1780 0 444 0 2076 1332 0 1304 DEND FY 2021 1785 684 2846 0 444 0 2076 1638 0 1538 0 1538 7 X. TOTAL CREAGE 6,857 5 5 5 3,679,000 3,679,000 3,679,000 28,868 3,679,000 28,868 44,800 44,800 44,800 44,800 3,679,000 28,868 44,800 44,800 44,800 5,679,000 4,810,000 4,810,000 4,810,000 4,810,000 4,810,000 4,810,000 4,810,000 4,810,000 4,810,000 4,810,000 4,810,000 4,810,000 10,650 <		1EOZ	ENLISTED		OFFICER			0FFICER				15.054
Display Display <thdisplay< th=""> <th< td=""><td>a. AS OF 30-Sep-15</td><td>1397</td><td>6904</td><td>2170</td><td>0</td><td>440</td><td>0</td><td>2070</td><td>1059</td><td>0</td><td></td><td>15,034</td></th<></thdisplay<>	a. AS OF 30-Sep-15	1397	6904	2170	0	440	0	2070	1059	0		15,034
P. INVENTOR IDATA (2000) 6,857 b. INVENTOR: A CREAGE 6,857 b. INVENTOR: TOTAL AS OF 3.678.000 c. AUTHORIZATION NOT YET IN INVENTORY 288,802 c. AUTHORIZATION NOT YET IN INVENTORY 418,000 c. REMAINING DEFICIENCY 4411,312 c. READ TOTAL CATEGORY COST CODE PROJECT TITLE SCOPE (2000) 171-475 211 Points Enclosed Fing Range 2600 SM 13.000 Design Build 141-446 PAR - Relocate JDOC Satellite Site 352 SM 3.500 06/15 09/16 7/1-475 JTAT 16,500 13.100 Design Build 141-446 PAR - Relocate JDOC Satellite Site 3.52 SM 3.500 06/15 09/16 111-114 Presidential Aircraft Recapitalization (PAR) Complex 112,782 SM 50,000 113-101 13.1000 113-101 16,500 10 116-662 141,60		1756	0094	2040	0	440	0	2078	1659	0		15,005
a. TOTAL ACREAGE 0.007 b. INVENTORAL SOF 30-58p-15 c. AUTHORIZATION NOT YET IN INVENTORY 228,800 d. AUTHORIZATION NOT YET IN INVENTORY 228,800 d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017) 16,500 c. REMAINING DEFICIENCY 4411,312 g. RRAND TOTAL 4411,312 c. REVENT FOUR PROGRAM (FY 2017) 16,500 C. REVENT FOUR PROGRAM (FY 2017) DESIGN STATUS C. READ TOTAL 4411,312 g. RRAND TOTAL 4411,312 g. RAND TOTAL COST CODE PROJECT ITTLE SCOPE CODE PROJECT ITTLE SCOPE VITHE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021) TOTAL 730-335 Construct Stacurby Forces Group Complex 8,175 SM 40,000 740-844 Construct Stacurby Forces Group Complex 112,792 SM 260,000 1111 1111 Consolidated Communication Center 12,855 SM 50,000 211-111 111.0000 116-662 11111 Presidential Aircraft Recapatilization (PAR) Complex 112,792 SM 260,000 116-662 11111 Consol	2 TOTAL ACREACE	6 957										
AUTHORIZATION NOT VET IN INVENTORY AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017) CATEGORY CATEGORY COST DESIGN STATUS PROJECT INTER PROGRAM (FY 2017) CATEGORY COST DESIGN STATUS PROJECT INTER PROGRAM (FY 2017) CATEGORY COST DESIGN STATUS PROJECT INTER PROGRAM (FY 2017) CATEGORY COST DESIGN STATUS PROJECT INTER PROGRAM (FY 2017) CATEGORY COST DESIGN STATUS PROJECT INTER PROGRAM (FY 2017) CATEGORY COST DESIGN STATUS PROJECT INTER PROGRAM (FY 2017) CATEGORY COST DESIGN STATUS PROJECT SIN PROGRAM (FY 2017) CATEGORY COST DESIGN STATUS PROJECT SIN PROGRAM (FY 2017) CATEGORY COST DESIGN STATUS PROJECT SIN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021) TOTAL 16,500 S. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021) TOTAL 16,500 S. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021) TOTAL 16,500 S. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021) TOTAL 16,500 S. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021) TOTAL 10,000 TOTAL 10,00		0,007 20 Son	15									2 679 007
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In the Name Process of Construct Sector (PAR) (PA					2017)							290,000
	a. AUTHORIZATION REQUESTED				2017)							10,500
A REMAINING DEPICERCY A411,312	e. PLANNED IN NEXT FOUR PROG		LARS (F	1 2010-2	2021)							418,000
G. BRAND FOTAL APRING TOTAL												0
B. PROJECTS REQUESTED IN THIS PROGRAM (PF 2017) COST DESIGN STATUS CODE PROJECT TITLE SCOPE (5000) START COMPLETE 171-475 21 Points Enclosed Firing Range 2600 SM 13,000 Design Build 141-446 PAR - Relocate JDOC Satellite Site 352 SM 3,500 06/15 09/16 9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021) TOTAL 16,500 06/15 09/16 730-835 Construct Security Forces Group Complex 8,175 SM 40,000 740-84 Construct Security Forces Group Complex 112,792 SM 260,000 131-111 Consolidated Communication Center 12,855 SM 50,000 116-662 1418,000 112,792 SM 260,000 116-662 Land Acquisition 19 HA 17,500 116-662 418,000 10 118-662 1418,000 10 10 SISSION OR MAJOR FUNCTIONS 10 10 Sission R MAJOR FUNCTIONS 10 10 Sission Rotary-Wing Airlift For The National Capital Region, Combat-Ready Airmen To Air And Space Expeditionary Forces, And A Secure Installation And Robust Infrastructure To Support Andrews Air Force Base Organizations 0 0 0 0	g. GRAND TOTAL			2017)								4,411,312
CODE PROJECT TITLE SCOPE (5031 Design SIATUS 171-475 21 Points Enclosed Firing Range 2600 SM 13,000 Design Build 141-446 PAR - Relocate JDOC Satellite Site 352 SM 3,500 06/15 09/16 9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021) 730-835 Construct Security Forces Group Complex 8,175 SM 40,000 740-884 Construct Child Development Center 3,819 SM 19,500 131-111 Consolidated Communication Center 12,855 SM 50,000 211-111 Presidential Aircraft Recapitalization (PAR) Complex 112,792 SM 260,000 116-662 116-662 Land Acquisition 19 HA 17,500 116-662 116-662 Hazardous Cargo PAD & EOD Range LS 31,000 116-662 Hazardous Cargo PAD & EOD Range LS 31,000 116-662 Hazardous Cargo PAD & EOD Range LS 31,000 116-662 Hazardous Cargo PAD & EOD Range LS 31,000 116-662 Hazardous Cargo PAD & EOD Range LS 31,000 116-662 Hazardous Cargo PAD & EOD Range LS 31,000 110 Other Environgency Response Capability Critical To National Security To Include Emergency Reaction Rotary-Wing Airlift For The National C	8. PROJECTS REQUESTED IN THIS	PROGR		2017)					~	NOT.	DEGIO	OTATUS
CUDE FAUSE Initial Start I CUMPE Initial Start I CUMPE Initial 171-475 21 Points Enclosed Fring Range 2600 SM 13,000 Design Build 141-446 PAR - Relocate JDOC Satellite Site 352 SM 3,500 06/15 09/16 TOTAL 16,500 OBSIGN 10,000 707-835 Construct Security Forces Group Complex 8,175 SM 40,000 740-884 Construct Child Development Center 3,819 SM 19,500 131-111 Consolidated Communication Center 12,855 SM 260,000 116-662 116-662 Hazardous Cargo PAD & EOD Range LS 31,000 116-662 116-662 Hazardous Cargo PAD & EOD Range LS 31,000 10 TOTAL 25.0 10.001SPTOTAL 25.0 10.001SPTOTAL 25.0 Optical To National Security To Include Emergency Reaction Rotary-Wing Airlift For The National Capital Region, Combat-Ready Airmen To Air And Space Expeditionary Forces, And A Secure Installation And Robust Infrastructure To Support Andrews Air Force Base Organizations 11. OUTSTANDING POLLUTION AND SAFETY DEFICIE	0005 000						600				DESIG	N STATUS
1/1-475 21 Points Enclosed Fining Range 2000 SM 13,000 Design Build 141-446 PAR - Relocate JDOC Satellite Site 352 SM 3,500 06/15 09/16 TOTAL 16,500 TOTAL 16,500 S. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021) TOTAL 16,500 TOTAL 26,500 740-884 Construct Child Development Center 3,819 SM 40,000 740-884 Construct Child Development Center 12,855 SM 50,000 211-111 Consolidated Communication Center 12,855 SM 260,000 116-662 Land Acquisition 19 HA 17,500 116-662 Hazardous Cargo PAD & EOD Range LS 31,000 TOTAL TOTAL TOTAL Altigon, Combat-Ready Airmen To Air And Space Expeditionary Forces, And A Secure Installation And Robust Infrastructure To Support Andrews Air Force Base Organizations Output Space Expeditionary Forces, And A Secure Installation And Robust Infrastructure To Support Andrews Air Force Base Organizations Occupational Safety and Health O	CODE PRO		ILE				<u>500</u> 000 6M	JPE	<u>(\$0</u>	<u>000)</u>	<u>SIARI</u> Dasi	COMPLETE
141-446 PAR - Relocate JUOC Satellite Site 352 SM 3,500 06/15 09/16 TOTAL 16,500 TOTAL 26,500 TOTAL 16,500 TOTAL 12,505 SM 40,000 111-111 Presidential Aircraft Recapitalization (PAR) Complex 112,792 SM 260,000 111-662 Land Acquisition 19 HA 17,500 TOTAL 25.0 TOTAL 25.0 10. MISSION OR MAJOR FUNCTIONS Provide Contingency Response Capability Critical To National Security To Include Emergency Reaction Rotary-Wing Airlift For The National Capital Region, Cornbat-Ready Airmen To Air And Space Expeditionary Forces, And A Secure Installation And Robust Infrastructure To Support Andrews Air Force Base Organizations 11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021) a. Air Pollution 0 O O O D <	1/1-4/5 21 Points Enclosed Firing F	kange				2	2600 SIVI		13,	000	Desi	gn Bulla
TOTAL 16,500 S. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021) 73-035 Construct Security Forces Group Complex 8,175 M 40,000 740-884 Construct Child Development Center 3,819 SM 19,500 131-111 Consolidated Communication Center 12,855 SM 50,000 211-111 Presidential Aircraft Recapitalization (PAR) Complex 112,792 SM 260,000 116-662 Land Acquisition 19 HA 17,500 116-662 Hazardous Cargo PAD & EOD Range LS 31,000 TOTAL 25.0 10. MISSION OR MAJOR FUNCTIONS TOTAL 25.0 10 10 Support Andrews Air Force Base Organizations Invoide Contingency Response Capability Critical To National Security To Include Emergency Reactor Rotary-Wing Airlift For The National Capital Region, Combat-Ready Airmen To Air And Space Expeditionary Forces, And A Secure Installation And Robust Infrastr	141-446 PAR - Relocate JDOC Sate	ellite Site					352 511		3,:	500	06/15	09/16
116-662 Hazardous Cargo PAD & EOD Range LS 31,000 TOTAL 418,000 TOTAL 25.0 10. MISSION OR MAJOR FUNCTIONS Provide Contingency Response Capability Critical To National Security To Include Emergency Reaction Rotary-Wing Airlift For The National Capital Region, Combat-Ready Airmen To Air And Space Expeditionary Forces, And A Secure Installation And Robust Infrastructure To Support Andrews Air Force Base Organizations 11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021) 0 a. Air Pollution 0 b. Water Pollution 0 c. Occupational Safety and Health 0 d. Other Environmental 0	9. FUTURE PROJECTS IN NEXT FO 730-835 Construct Security Forces (740-884 Construct Child Developme 131-111 Consolidated Communicati 211-111 Presidential Aircraft Recapi 116-662 Land Acquisition	UR PRO Group Co ent Cente on Cente talizatior	omplex er er n (PAR) ((EARS (Complex	(FY 2018	-FY 202 1	1) 8,175 3,819 12,855 112,792 19	SM SM SM SM SM HA	16, 40, 19, 50, 260 17,	500 000 500 000 000 500		
TOTAL 418,000 R&M UNFUNDED REQUIREMENT (\$M) TOTAL 25.0 10. MISSION OR MAJOR FUNCTIONS Provide Contingency Response Capability Critical To National Security To Include Emergency Reaction Rotary-Wing Airlift For The National Capital Region, Combat-Ready Airmen To Air And Space Expeditionary Forces, And A Secure Installation And Robust Infrastructure To Support Andrews Air Force Base Organizations 11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021) 0 a. Air Pollution 0	116-662 Hazardous Cargo PAD & E	OD Ran	ge					LS	31,	000		
R&M UNFUNDED REQUIREMENT (\$M) TOTAL 25.0 10. MISSION OR MAJOR FUNCTIONS Provide Contingency Response Capability Critical To National Security To Include Emergency Reaction Rotary-Wing Airlift For The National Capital Region, Combat-Ready Airmen To Air And Space Expeditionary Forces, And A Secure Installation And Robust Infrastructure To Support Andrews Air Force Base Organizations 11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021) 0 a. Air Pollution 0 b. Water Pollution 0 c. Occupational Safety and Health 0 d. Other Environmental 0								TOTAL	418	,000		
10. MISSION OR MAJOR FUNCTIONS Provide Contingency Response Capability Critical To National Security To Include Emergency Reaction Rotary-Wing Airlift For The National Capital Region, Combat-Ready Airmen To Air And Space Expeditionary Forces, And A Secure Installation And Robust Infrastructure To Support Andrews Air Force Base Organizations 11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021) 0 a. Air Pollution 0 b. Water Pollution 0 c. Occupational Safety and Health 0 d. Other Environmental 0	R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	2	5.0		
Provide Contingency Response Capability Critical To National Security To Include Emergency Reaction Rotary-Wing Airlift For The National Capital Region, Combat-Ready Airmen To Air And Space Expeditionary Forces, And A Secure Installation And Robust Infrastructure To Support Andrews Air Force Base Organizations 11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021) 0 a. Air Pollution 0 b. Water Pollution 0 c. Occupational Safety and Health 0 d. Other Environmental 0	10. MISSION OR MAJOR FUNCTION	S										
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021) 0 a. Air Pollution 0 b. Water Pollution 0 c. Occupational Safety and Health 0 d. Other Environmental 0 TOTAL 0	Provide Contingency Response Capab Capital Region, Combat-Ready Airmen Support Andrews Air Force Base Organ	ility Critic To Air A nizations	cal To Na and Spac	ational S e Exped	ecurity To litionary F	o Include Forces, A	Emerge nd A Se	ncy Rea cure Inst	ction Ro	tary-Wing And Robu	g Airlift For T Ist Infrastruc	he National ture To
a. Air Pollution 0 b. Water Pollution 0 c. Occupational Safety and Health 0 d. Other Environmental 0 TOTAL 0	11. OUTSTANDING POLLUTION AN	D SAFE	TY DEFI	CIENCI	ES (FY 2	017 - FY	2021)					
b. Water Pollution 0 c. Occupational Safety and Health 0 d. Other Environmental 0 TOTAL 0	a. Air Pollution									0		
c. Occupational Safety and Health 0 d. Other Environmental 0 TOTAL 0	b. Water Pollution									0		
d. Other Environmental 0 TOTAL 0	c. Occupational Safety and Heal	th								0		
TOTAL 0	d. Other Environmental									0		
								TOTAL		0		

DD Form 1390, JUL 1999

1. COMPONENT		FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE (computer generated)										
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE										
JOINT BASE ANDR	EWS-NA	VAL AIR FACILITY WAS	SHINGTON	CONST	RUCT 21 POI	INT ENCLOSED	FIRING RANGE			
ANDREWS SITE # 1										
			_							
5. PROGRAM ELEM	IENT.	6. CATEGORY CODE	7. RPSUID/	PROJEC	CT NUMBER	8. PROJECT	COST (\$000)			
41976		171-475	1377,	/AJXF0	93000		13,000			
9. COST ESTIMATES										
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)			
PRIMARY FACILIT	IES						8,263			
21 POINT ENCLO	SED FI	RING RANGE		SM	2,140	3,250	(6,955)			
ADMINISTRATIVE	AREA	(610-129)		SM	400	2,650	(1,060)			
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(164)			
RENOVATION OF	EXISTI	NG ADMIN SPACE (610-	129)	SM	60	1,400	(84)			
SUPPORTING FACIN	LITIES						3,025			
UTILITIES				LS			(850)			
PAVEMENTS				LS			(540)			
SITE IMPROVEME	NTS			LS			(480)			
COMMUNICATION				LS			(300)			
STORM WATER MA	NAGEME	NT		LS			(660)			
CONNECTION CHA	RGE TO	UTILITY PROVIDER		LS			(55)			
CONNECTING COV	ERED C	ANOPIES		LS			(140)			
SUBTOTAL							11.288			
CONTINGENCY	(5.0%						564			
TOTAL CONTRACT	COST						11 852			
CUDEDVICTON IN	CODI		(5 7%)				£76			
DESIGN/BUILD - 1	DESTGN	COST (4.0% OF S	(J. 7%)				452			
TOTAL REQUEST		(100 01 1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				12,980			
TOTAL REQUEST ()	ROUNDE	D)					13,000			
EQUIPMENT FROM	OTHER	-, APPROPRIATIONS (NON-	ADD)				(100			
10 Deggripti		Bropogod Construe	ation. Co	natru	at a 21 m	int fullur a				
range with rei	inford	ed concrete foundation	ation. a s	mooth	steel-tro	owel finishe	ad			
reinforced con	ncrete	floor with a 2% of	rade from	the	firing lin	ne to target	: line,			
structural ste	el fr	ame, fully grouted	d reinforc	ed ma	sonry wall	Ls, steel de	eflector			
plates, bullet	s tra	ps, overhead baff]	les, utili	ties,	communica	ations, sour	nd			
reflection red	luctic	n, dust collection	n, concret	e pad	, control	tower, stor	age, HVAC			
system, exhaus	st sys	tem, and electrica	al system	to su	pport weap	pons trainir	ng			
requirements of the National Capital Region (NCR). Facility will be designed as a										
200-01 Genera	al Bui	lding Requirements	with DOD	0n111 1_200	-02 High	Performance	La (UFC) I-			
Sustainable Bu	ildin	g Requirement. Co	omply with	DoD	minimum Ar	titerroris	Standards			
for buildings per UFC 4-010-01. Includes renovation of existing admin and										
restrooms.										
11. Requirement: 4570 SM Adequate: 1970 SM Substandard: 60 SM										
PROJECT: Cons	PROJECT: Construct a 21 point fully enclosed Firing Range. (Current Mission).									
REQUIREMENT:	Incre	ased range capabil	lity that	meets	AF standa	ards is need	led to			
handle the inf	lux c	f personnel requir	ring weapo	ns tr	aining at	Andrews AFE	3. A			
DD FORM 1391,	DEC 9	9 Previou	s edition	s are	obsolete.		Page No.			

3. INSTALLATION, SITE	AND LOCATION	4. PROJECT TITLE					
JOINT BASE ANDREWS-NA	VAL AIR FACILITY WAS	SHINGTON	CONSTRUCT 21 POINT ENCLOSED FIRING RANGE				
ANDREWS SITE # 1							
MARYLAND							
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT COST (\$000)			
41976	171-475	1377	/AJXF093000	13,000			
properly sized con	figured and fully	contained	small arms ran	ge is required to			
provide adequate tr	aining to military	v personne	l that require	certification in the			
use of up to 45 cal	iber handgung, 12	gauge sho	touns, rifles u	r = 10			
	iber nandguns, iz	gauge site	cguns, iiies u				
CURRENT SITUATION:	JB Andrews is pro	oviding we	apon qualificat	ion training to			
approximately 8,100	personnel from No	CR. Addit	ionally, new M4	/MI6A2 Air Force			
Qualification Cours	e further exacerba	ates capac	ity issues. Ne	w course of Fire			
doubles ammo use; a	mmo expenditures :	increased	from 100 to 276	rounds per student.			
On average, trainin	g time has increas	sed from 7	to 10 hours un	der the new			
qualification stand	ards. Currently A	narews is	the sole Air Fo	rce weapons training			
location in the NCR	Providing training	ng ior AF	personnel stati	oned at Ft Meade, Ft			
Beivoir, Danigren,	Pentagon and other	r military	the increased m	ne region. Daily			
capacity has double	a in order to push	n through	the increased n	implemented in order			
to maintain training.	weekends and all	der nours	nave also been	implemented in order			
to maintain trainin	g. Short Hotice (s make up betwe	for dayla potigo Dor			
the joint baging ag	reement Navy per	orcen cin sonnel wil	les with only a	use the Combat Arms			
Training and Mainte	nance (CATM) area	for their	personnel loca	ted in the NCR			
Additionally, the A	ir National Guard	and Air F	orce Reserve un	its located at Andrews			
AFB utilize the ran	ge to complete th	eir weapon	s training.	its iscaled at Midlews			
TMDAGE TE NOE DDOUT	DED. IB Andrews	will not h	o shlo to sllow	Norra Din National			
Guard or Air Forde	DED: OB ANDIEWS (Beserve personnel	will not b	e firing range	facilities due to the			
oversized classes +	hat are being tra	ined daily	The addition	with current overseas			
operations set to c	ontinue and/or in	crease for	AF personnel	the CATM staff will be			
forced to conduct 2	4 hour operations	and possi	hly work weeken	ds to accomplish the			
required training.	i nour operacions	una pobbi	biy work weeken				
ADDITIONAL: This D	roject meets the	saone/arit	eria specified	in Air Forge Manual			
32-1084 "Facility P	equirements" An	acope/ciic	nalveje wag pre	nared comparing the			
alternatives of sta	tus quo use of qu	ommercial	firing range a	and new construction			
based on the net pr	resent values and l	benefits o	of the respectiv	re alternatives, new			
construction was for	and to be the most	t cost eff	ective over the	life of the project.			
Connection charge u	nder FAR Part 41	for utilit	v provider to i	nstall required			
connecting faciliti	es, which the pro	vider will	own, operate,	and maintain as part			
of their privately	owned system. The	e utility	connection char	ge is included as Lump			
Sum in block 9 unde	r supporting facil	lities as,	"Connection ch	arge to Utility			
Provider". Base Ci	vil Engineer: (30)	1) 981-728	1. Firing Rang	ie : 2140 SM = 23,040			
SF; Administrative	Area: $400 \text{ SM} = 4,3$	310 SF; Re	novation of Exi	sting Administrative:			
60 SM = 646 SF.	-	-		-			
Space: 60 SM = 646	SF.						
TOTNT USE CEPTIEICA	TTON. Mission reg	uirements	operational co	ngiderations and			
location are incomp	atible with use b	v other co	mponents.				
		,					
DD FORM 1391, DEC 9	9 Previou	us edition	s are obsolete.	Page No.			

FY 2017 MILITARY CONSTRUCTION PROJECT DATA

(computer generated)

2. DATE

1. COMPONENT

AIR FORCE

1. COMPONENT AIR FORCE	1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated)										
2 TNCTATIATT	3 INSTALLATION AND LOCATION 4 DECIDECT TITLE										
JOINT BASE AN WASHINGTON ANDREWS SITE	DREWS-NA	VAL AIR FACILITY		4. PROJE CONSTRUC RANGE	T 21	TLE POINT ENCLOSE	D FI	IRING			
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$00											
41976		171-475	137	7/AJXF093	000	13,	,000	D			
12. SUPPLEMEN	TAL DAT	A:									
a. Estimate	d Design	n Data:									
(1) Projec	ct to be	accomplished by de	sign-	build pro	cedur	es					
(2) Basis (a) St	: andard o	or Definitive Desig	n -					NO			
(b) Wh	ere Des	ign Was Most Recent	ly Use	ed -							
(3) All O	ther Des	ign Costs						650			
(4) Constr	ruction	Contract Award					17	FEB			
(5) Const	ruction	Start					17	APR			
(6) Const	ruction	Completion					18	AUG			
(7) Energy	y Study/	Life-Cycle analysi:	s was/	will be p	erfor	med		YES			
b. Equipmen	t associ	lated with this pro	ject <u>r</u>	provided f	Erom c	other appropri	.ati	.ons:			
EQUIPMENT	NOMENCI	PRO	CURING	APPRC	FISCA APPRC OR RE	AL YEAR DPRIATED EQUESTED		COST (\$000)			
COMMUNICA	TION EQ	UIPMENT	340	0	2	2018		100			

1. COMPONENT		FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE		(computer generated)								
3. INSTALLATION	, SITH	E AND LOCATION		4. PF	OJECT TITL	Ε				
JOINT BASE ANDR	EWS-NZ	AVAL AIR FACILITY W	ASHINGTON	PAR -	JADOC SATI	ELLITE SITE				
ANDREWS SITE #	1									
MARYLAND		r	T							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT	COST (\$000)			
41976		141-446	1377/.	AJXF16	3001		3,500			
		9.	COST ESTIM	ATES						
						UNIT	COST			
		ITEM		U/M	QUANTITY		(\$000)			
PRIMARY FACILITI	ES						930			
JOINT AIR DEFE	NSE OF	PERATIONS CENTER		SM	138	4,630	(639)			
GENERATOR BUIL	DING			SM	22	4,215	(93)			
ASSET PAD				SM	192	667	(128)			
SUSTAINABILITY	AND E	ENERGY MEASURES		LS			(70)			
SUPPORTING FACII	ITIES	1		İ			2,180			
UTILITIES				LS			(364)			
PAVEMENTS				LS			(120)			
SITE IMPROVEMEN	TS			LS			(454)			
STORM SEWER				LS			(33)			
RESURFACING/PAI	RKING	LOTS		LS			(120)			
ACCESS ROADS				LS			(350)			
SECURITY/FENCI	NG			LS			(325)			
ACTIVE/PASSIVE	BARRI	IERS		LS			(160)			
DEMOLITION				LS			(24)			
COMMUNICATIONS				LS			(150)			
EMERGENCY GENER	RATOR			LS			(55)			
CONNECTION COS	гто и	JTILITY PROVIDER		LS			(25)			
SUBTOTAL							3,110			
CONTINGENCY	(5	5.0%)					155			
TOTAL CONTRACT C	OST						3,265			
SUPERVISION, INS	PECTI	ON AND OVERHEAD	(5.7%)				186			
TOTAL REQUEST						-	3,451			
TOTAL REQUEST (F	OUNDE	D)					3,500			
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							(192.0)			
10. Description of Proposed Construction: Construct a new operations facility for							acility for			
the Joint Air Defense Operations Center (JADOC) satellite site at Joint Base							Base			
Andrews (JBA). The facility will be designed as permanent construction in						in				
accordance with UFC 1-200-01, "General Building Requirements". The facility						ity				
includes a secure launch area, a security/suppor				ort f	acility, a	appropriate	GOV/POV			
parking areas, and access road. The launch area clear zone. The pad will need road access from				a inc. the	Ludes a CC Security/s	support faci	and a fiat lity. A			
security fence will encompass the support facil				litv.	clear zor	ne, and laun	ch pad.			
Ground work will be required to level out the q					d for the	platform, a	nd a berm			
will be requir	ed to	prevent slumping	g and erosi	on fr	om the nea	arby stream.	Trees and			
standing objects will be removed to allow for 30 degree vertical clearance for the										

launch pad. Power, water, sewer, communications and any other necessary utilities will be provided to the site and all other necessary work to provide a complete and

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE									
AIR FORCE		(computer generated)								
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE										
JOINT BASE ANDREWS-NAVAL AIR FACILITY WASHINGTON PAR - JADOC SATELLITE SITE ANDREWS SITE # 1 MARYLAND										
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000)										
41976 141-446 1377/AJXF163001 3,500										
usable product. Demolish the existing JADOC facility on base. Comply with DoD minimum antiterrorism Standards for building per UFC 4-010-01.										
11. Requiremen	t: 35	2 SM Adequate:	: 0 SM S	ubstandard: 88	SM					
PROJECT: Relo	cate	Joint Air Defense	e Operation	s Center (JADOO	C) Satellite S	Bite.				
(Current Missi	on)									
REQUIREMENT:	The A	F Strategic Basin	ng has desi	gnated Joint Ba	ase Andrews, M	🖸 as the				
preferred and	reasc	nable alternative	e for the Ma	ain Operating H	Base of the					
Presidential A	irlif	t Group (PAG). As	s a direct :	result of this	program, the	existing				
JADOC satellit	e sit	e at JBA will be	displaced ·	to the northeas	st sector of t	he base.				
New JADOC faci	litie	s include a secur	re launch a	rea, a security	/support faci	lity with				
all necessary	utili	ties, appropriate	GOV/POV pa	arking areas an	nd access road	1.				
Demolish the e	xisti	ng JADOC facility	7. The sele	cted site will	require a 750) foot QD				
arc from the l	aunch	pad required by	AFMAN 91-2	01, Explosives	Safety Standa	irds and				
DoDM 6055.09-M	. The	launch pad requi	ires a 30 d	egree elevation	n clear zone f	rom the				
launch pad.										
CURRENT SITUAT	ION:	The current JADO	C satellit	e site occupies	land require	ed for				
other projects	and	must be relocated	1. JADOC pr	- ovides ground h	⊃ased air def∉	ense for				
the National C	apita	l Region (NCR) an	nd JBA. Exe	cutive orders a	authorize Inte	grated				
Air Defense Sy	stems	(IADS) in the NO	CR; relocat	ing the site av	way from JBA]	eaves				
portion of the	NCR	vulnerable to the	reats. The	location best a	- suited for thi	s				
distance requi	remen	t is the northeas	st sector o	f the installat	ion. The prop	osed				
location is th	e onl	y feasible locati	ion within	the NCR capable	e of meeting t	he JBA				
JADOC's missio	n req	uirements.								
IMPACT IF NOT	PROVI	DED: The JADOC s	site at JBA	is part of the	NCR's ground	based				
air defenses r	equir	ed by Executive (Orders. The	relocation of	JADOC is part	of the				
Base Master Pl	annir	g to facilitate f	the bed-dow	n of other crit	tical faciliti	les.				
	"hig r	rotost moots the	aritoria/a	appo groatfied	in Nir Forgo	Manual				
32-1084 "Fagi	115 5	Pequirements Ine	criteria/s	of reasonable :	ll All Force	Manual (status				
guo or new con	struc	tion alternative	s) was prep	ared Based or	the net pres	sent				
values and ben	ofite	of the respective	ve alternat	ives, new const	ruction was f	found to				
be the most co	st of	fective over the	life of th	e project Su	stainable priv	ciples				
will be integr	ated	into the design.	developmen	t, and construct	stion of the r	project in				
accordance wit	h IIFC	1-200-02. "High	Performanc	e and Sustainal	ole Building	Jojecc in				
Requirements"	Bage	Civil Engineer.	(301) 98	1-7281 Juscaina	Air Defense (Derations				
Center: 138 S	м = 1	486 SE: Generat	or Building	• 22 GM = 237	SE. Asset Con	crete				
Pad: 192 SM =	2,065	SF.	- Sarrariy		,					
	-,	TON, This facily		nommed for ded	nt ugoith T	7 7 2000 2 2				
JOINT USE CERTIFICATION: This facility is programmed for joint use with US Army;										
nowever, it is	nowever, it is fully funded by the Air Force.									

	1										
1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DAT											
3 TNGTALLATT	3. INSTALLATION AND LOCATION 4 PROTECT TITLE										
JOINT BASE AN WASHINGTON	JOINT BASE ANDREWS-NAVAL AIR FACILITY PAR - JADOC SATELLITE SITE WASHINGTON ANDREWS SITE # 1										
MARYLAND	# 1										
5. PROGRAM EI	5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000)										
41976		141-446	1377/	AJXF163001	3,	500					
12. SUPPLEMENTAL DATA:											
a. Estimate	ed Design	n Data:									
(1) Statu	ıs:										
(a) Da	te Desig	gn Started			08	-JUN-15					
(b) Pa	arametrio	Cost Estimates us	sed to d	evelop costs		YES					
* (C) Pe	ercent Co	omplete as of 01 J	AN 2016			15%					
* (d) Da	te 35% I	Designed			30	-SEP-15					
(e) Da	te Desig	gn Complete du/Life Guale ang		- /will be nor	30	-SEP-16					
	lergy Sti	dy/Life-Cycle ana.	lysis wa	s/will be per	rormed	IES					
(2) Basis	:										
(a) St	andard o	or Definitive Desig	yn -			NO					
(b) Wh	ere Desi	ign Was Most Recent	tly Used	-							
(3) Total	. Cost (d	(a) = (a) + (b) or ((d) + (e):		(\$000)					
(a) Pr	oduction	n of Plans and Spec	cificati	ons		210					
(b) Al	1 Other	Design Costs				175					
(c) To	otal					385					
(d) Co	ontract					315					
(e) Ir	n-house					70					
(4) Const	ruction	Contract Award				17 FEB					
(5) Const	ruction	Start				17 APR					
(6) Const	ruction	Completion				18 MAY					
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.											
b. Equipment associated with this project provided from other appropriations:											
EQUIPMEN	AL YEAR PRIATED QUESTED	COST (\$000)									
SECURITY	2018	192									
1. COMPONENT	F	V 2017	ΜΗ ΙΤΔΙ		STRUC		ROGR	м	2. DATI	E (YYYMMDD)	
--	-------------------------------	--------------------------	------------------------	---------------------------	------------------------	------------------------------	----------------------------	--------------------------	---------------------------	---	
AIR FORCE	•	1 2017			311.00		NOGNA			20150911	
3. INSTALLATION AND LOCATION				4. COM	MAND				5. ARE	A CONSTRUCTION	
HANSCOM AIR FORCE BASE					RCE MA	TERIEL	СОММА	ND	COS	TINDEX	
MASSACHUSETTES										1.26	
6. PERSONNEL	(1) F	PERMAN	IENT	(2)	STUDEN	ITS	(3) \$	SUPPOR	TED	TOTAL	
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF 30-Sep-15	551	305	1825				75	56	28	2,840	
	554	302	1771				71	55	28	2,781	
7. INVENTORY DATA (\$000)	946										
	040 20 Son	15								2 062 882	
										2,002,002	
		PROGR	AM (EV	2017)						20,000	
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)									235,965		
f REMAINING DEFICIENCY									92 221		
GRAND TOTAL									2.424.568		
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY	2017)							_, ,,000	
CATEGORY			2011)					cc	OST	DESIGN STATUS	
CODE PRO	JECT TI	TLE				SCO	OPE	(\$0	000)	START COMPLETE	
317-315 SYSTEM MANAGEMENT	ENGINE	ERING	FACILIT	Y		3,637	SM	20,	000	Design Build	
				-			0				
9. FUTURE PROJECTS IN NEXT FO 730-832 Construct Vandenberg Gat 317-315 Advanced Microelectronics	UR PRO e Compl Integrat	OGRAM ex ion Facil	YEARS(ity (MIT -	(FY 2018 - LAB)	- FY 202	9 <i>1)</i> 408 15,017	TOTAL SM SM TOTAL	20, 10, 225	000 965 ,000		
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	33	3.0		
10. MISSION OR MAJOR FUNCTION	IS										
AFLCMC provides the latest in comma 8 Joint STARS; an Air Force Research recruiting group.	nd and c Laborat	ontrol ar ory (AFR	nd inform RL) resea	ation sys arch site le	tems for ocation fo	various or the sp	weapons ace vehi	s platforn icles dire	ns includii ctorate; a	ng the E-3 AWACS and E- n air base group and	
11. OUTSTANDING POLLUTION AN	D SAFE	TY DEF	CIENCI	ES (FY 2)	017 - FY	2021)					
a. Air Pollution				,		,			C		
b. Water Pollution									0		
c. Occupational Safety and Heal	th								C		
d. Other Environmental									0		
							TOTAL		0		

DD Form 1390, JUL 1999

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT		FY 2017 MILIT.	ARY CONSTRU	CTION	PROJECT DAT	ſA	2. DATE				
AIR FORCE		(c	omputer gen	erate	d)						
3. INSTALLATION	, SITE	AND LOCATION		4. PF	OJECT TITLE						
HANSCOM AIR FOR	CE BAS	E		SYSTE	M MANAGEMEN	T ENGINEERIN	G FACILITY				
HANSCOM AFB SIT MASSACHUSETTS	E # 1										
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)				
72976		317-315	2487/	'MXRD0	73000		20,000				
		9. C	OST ESTIMA	TES							
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)				
PRIMARY FACILIT	IES						12,986				
SYSTEM MANAGEM	ENT EN	GINEERING FACILITY		SM	3,637	3,500	(12,730)				
SUSTAINABILITY	AND E	NERGY MEASUREMENTS		LS	İİİ		(256)				
SUPPORTING FACIN	LITIES				İ		4,408				
UTILITIES				LS			(850)				
PAVEMENTS				LS			(650)				
SITE IMPROVEME	NTS			LS			(570)				
COMMUNICATIONS				LS	İ		(250)				
DEMOLITION				SM	6,961	300	(2,088)				
SUBTOTAL							17,394				
CONTINGENCY	(5.0%))					870				
TOTAL CONTRACT	COST						18,263				
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				1,041				
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)				696				
TOTAL REQUEST							20,000				
TOTAL REQUEST (1	ROUNDE	D)					20,000)				
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				(1,200				
10. Descripti economical des Force, and bas improvements, permanent cons 200-01, Genera	on of sign a se des and a struct 1 Bui	Proposed Construct nd construction me ign standards. In 11 other support f ion in accordance lding Requirements	etion: Con ethods com ncludes new Eacilities with DoD s and UFC	nstru patib w acc . Fa Unifi 1-200	ct a facil le with ap ess road, cility wil ed Facilit -02, High	ity utilizi plicable Do landscaping l be design ies Criteri Performance	ng D, Air g, site ned as a La (UFC) 1- e and				
Sustainable Bu for buildings	uildin per U	g Requirement. Co FC 4-010-01. Demo	omply with olish 6,96	DoD 1 SM.	minimum An	titerrorism	1 Standards				
11. Requirement		37 SM Adequates	0 SM	Subet	andard. 69	61 SM					
PROTECT: Syst		nagement Engineeri	ing Fagili	- v	(Current M	(ission)					
REQUIREMENT:		lidate the Air For	ce Life C	vcle	Management	Center (AF					
Business and E	Interp	rise Systems Direc	ctorate's,	Air	Force Inte	grated Pers	sonnel & Pay				
System (AFIPPS	System (AFIPPS) Program located in a geographically isolated area of the base										
(B1102C) to B1	(B1102C) to B1604 allowing them to be located within the AFLCMC district and to										
divest a 6,961	livest a 6,961 SM facility that is not economically repairable.										
CURRENT SITUAT	CURRENT SITUATION: Building B1102C was constructed in 1956 and is beyond economic										
repair. The e antiquated, in the Civil Engi	repair. The existing heating, ventilation and air conditioning (HVAC) system is untiquated, inefficient, and prone to failure. The old pneumatic controls limit The Civil Engineering Squadron's ability to provide proper HVAC regulation. The										
existing steam	n and	condensate system	existing steam and condensate system used for heating is inefficient, in-effective,								

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	JCTION PROJECT DAT	ſA	2. DATE			
AIR FORCE		(c	omputer gen	nerated)					
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE	1				
HANSCOM AIR FORCE BASE SYSTEM MANAGEMENT ENGINEERING FACILITY									
HANSCOM AFB SITE # 1									
MASSACIIUSEIIS	MASSACHUSETTS								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)			
72976		317-315	2487	/MXRD073000	20	,000			
						•			
and contains a	sbest	os in the piping s	system. T	he existing win	dows are ori	ginal to			
the building and have never her replaced. Never of the windows have smaller and									
the building and have never been replaced. Many of the windows have clacks and									
have been sealed by means of duct tape. The existing window caulking contains									
aspestos so it will be expensive to replace the windows because the caulking will									

have been sealed by means of duct tape. The existing window caulking contains asbestos so it will be expensive to replace the windows because the caulking will have to be abated. The existing flooring in the building needs to be replaced and likely contains asbestos as well. The building does not comply with the Americans with Disabilities Act (ADA). There are no handicap accessible ramps in the building and the only elevator access is a failing freight elevator. The foundation and vertical columns for the building also likely contain asbestos and do not meet current seismic codes. The building's electrical distribution network cannot support all the printers, cubicles, and computers required to support AFLCMC?s AFFIPS mission.

<u>IMPACT IF NOT PROVIDED</u>: The air Force will continue to pay expensive maintenance costs and countless man hours will continue to be wasted maintaining an already deteriorated building. AFIPPS program personnel will continue to spend significant time and effort resolving building issues rather than providing mission support resulting in an overall loss of organization efficiency. Current and additional mission assignments will not be adequately supported due to building constraints. The building will continue to deteriorate and Life Safety Code requirements will not be met.

ADDITIONAL: This project meets the criteria/scope specified in the Air Force Manual 32-1084, "Facility Requirements". An economic analysis of reasonable options was conducted, new construction was found to most cost effective over the life of the project. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance UFC 1-200-02. Base Civil Engineer: 781-225-2999. System Management Engineering Facility: 3,637 SM - 39,314 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 2017 MILITA	RY CONSTRU	JCTION PROJECT	DATA	2. DATE
AIR FORCE		(coi	mputer gen	nerated)		
3. INSTALLATIO	ON AND L	OCATION		4. PROJECT TI	TLE	
HANSCOM AIR FO HANSCOM AFB SI MASSACHUSETTS	ORCE BAS ITE # 1	E		SYSTEM MANAGE	MENT ENGINEERI	ING FACILITY
5. PROGRAM ELI	EMENT	6. CATEGORY C	ODE 7. PI	OJECT NUMBER	8. PROJECT CC	ST (\$000)
72976		317-315	248	7/MXRD073000	20,	000
12. SUPPLEMEN	TAL DATA	.:				
a. Estimated	d Design	Data:				
(1) Projec	t to be	accomplished b	y design-	build procedur	es	
(2) Basis: (a) St (b) Wh	andard c ere Desi	or Definitive De gn Was Most Rec	esign - cently Use	:d -		NO
(3) All Ot	her Des	ign Costs				1,000
(4) Constr	uction	Contract Award				17 FEB
(5) Constr	ruction	Start				17 APR
(6) Constr	ruction	Completion				18 DEC
(7) Energy	study/	Life-Cycle anal	ysis was/	will be perfor	med	YES
b. Equipmen	t associ	ated with this	project p PROCURING	rovided from o FISC APPRC APPRC	other appropri AL YEAR DPRIATED	ations: COST
EQUIPMENT	NOMENCI	ATURE		OR RE	QUESTED	(\$000)
FURNISHIN	GS		340		2018	150
AV EQUIPM	ENT TIONS FO		308		2018	1 000
COMMUNICA	IIONS EQ	JOIPMEN I	508	J 2	2018	1,000

	FY 2017 MILITARY CONSTRUCTION PROGRAM									2. DATE (YYYMMDD)	
3 INSTALLATION AND LOCATION				4 COM							
MALMSTROM AIR FORCE BASE									5. ARE		
MONTANA				COMMA		JDAL 31				1.1	
6. PERSONNEL	(1) F	PERMAN	ENT	(2)	STUDE	ITS	(3)	SUPPOR	TED		
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	т	DTAL
a. AS OF 30-Sep-15	449	2617	481	0	0	0	462	3053	647		7,709
b. END FY 2021	360	2191	479	0	0	0	373	2625	645		6,673
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE	3,627										
b. INVENTORY TOTAL AS OF	30-Sep-	15									3,181,296
c. AUTHORIZATION NOT YET IN IN	IVENTO	RY									31,199
d. AUTHORIZATION REQUESTED	IN THIS	PROGR	AM (FY	2017)							14,600
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											110,750
f. REMAINING DEFICIENCY										0	
g. GRAND TOTAL											3,337,845
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY	2017)								
	CAT	EGORY						CC	DST	DESIG	N STATUS
CODE PRO.	JECT TI	TLE				SCO	<u>OPE</u>	<u>(\$0</u>	<u>)00)</u>	<u>START</u>	<u>COMPLETE</u>
212-216 Relocate Missile Maintenar				4,047	SM	14,	600	06/15	09/16		
9. FUTURE PROJECTS IN NEXT FO 215-582 Weapons Storage Facility 730-142 Construct Fire Station 740-674 Physical Fitness Center	UR PRO	GRAM	(EARS)	(FY 2018	-FY 202°	1) 8,065 1,832 2,620	SM SM SM	. 14 , 95, 4, 11,	600 000 150 600		
							TOTAL	110	,750		
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	. 44	4.0		
10. MISSION OR MAJOR FUNCTION Malmstrom Air Force Base is home to the Horse Squadron of Air Combat Comma combat-ready Airmen. The 341st MW miles of Montana. The wing also opera	IS the 341s and. The operates tes 8 UH	t Missile e mission s, mainta I-1N Hue	Wing (N of the 3 ins and s y helico	1W) of Air 341st MW secures 1 pters that	Force G is to def 50 Interd perform	Global Str end Ame continent nuclear	rike Corr erica witi al Ballisi convoy :	nmand ar h safe, se tic Missile security a	nd also ho ecure, eff es positio and missil	ome to the 8 ective nucle ned across le site suppo	19th Red ar forces and 23,500-square- ort.
11. OUTSTANDING POLLUTION AN a Air Pollution	D SAFE	TY DEFI	CIENCI	E S (FY 2	017 - FY	2021)			0		
									0		
b. Water Pollution									0		
c. Occupational Safety and Heal	th								0		
d. Other Environmental								1	0		
							TOTAL		0		

DD Form 1390, JUL 1999

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT		FY 2017 MIL	ITARY CONSTRU	CTION	PROJECT DA	TA	2. DATE		
AIR FORCE			(computer gen	erate	d)				
3. INSTALLATION	, SIT	E AND LOCATION		4. PI	ROJECT TITL	E	- 1		
MALMSTROM AIR F	ORCE	BASE		RELOCATE MISSILE MAINTENANCE FACILITY					
MALMSTROM SITE	# 1								
MONTANA									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT	VECT COST (\$000)		
27576		212-216	2528/1	NZAS17	3001	1	4,600		
	9. COST ESTIMATES								
						UNIT	COST		
		ITEM	U/M	QUANTITY		(\$000)			
PRIMARY FACTLIT	TES						11.017		
					4 0 4 7	2 660	(10,801)		
MISSILE MA DIS	PAICH	FACILITI			1,01/	2,009	(10,801)		
SUSTAINABILITY	AND 1	INERGI MEASURES					(216)		
SUPPORTING FACI	LITIES						2,153		
PAVEMENTS				LS			(1,196)		
SITE IMPROVEME	NTS			LS			(253)		
UTILITIES				LS			(450)		
PASSIVE FORCE	PROTE	CTION MEASURES		LS			(254)		
SUBTOTAL							13,170		
CONTINGENCY	(5	5.0%)					659		
TOTAL CONTRACT (COST					-	13,829		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD				788			
TOTAL REQUEST					-	14,617			
TOTAL REQUEST (1	OTAL REQUEST (ROUNDED)						14,600		
EQUIPMENT FROM (IPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(400.0)		
10. Descripti	on of	Proposed Constru	uction: The	e new	Helo/TRF	beddown pro	gram is		

10. Description of Proposed Construction: The new Helo/TRF beddown program is displacing the Missile Maintenance Dispatch facility from Bldg 1440. The new Missile Maintenance Dispatch Facility will provide office space for managing /planning maintenance activity, storage for thousands of components/equipment for missile field, shop space for component repair/testing, and keep vehicles out of the weather and prolong resource lifespan of vehicle. 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: 30 Tons

11. Requirement: 4047 SM Adequate: SM Substandard: 4047 SM PROJECT: Missile Maintenance Dispatch Facility, (Current Mission) REQUIREMENT: The Missile Maintenance Dispatch Facility will be used to provide indoor maintenance on equipment used in the missile field, store parts for missile maintenance as needed and keep vehicles out of the weather. On-base facilities are required to inspect and repair components and equipment to be used/installed at ICBM Launch and Launch Control Facilities. Facilities should increase efficiency of component/equipment transport from repair shop to the installer. Maintenance teams utilize a fleet of various types of vehicles (some very specialized) to repair/maintain/replace all components. On-base facilities are needed to manage maintenance personnel and maintenance functions as well as stage personnel, equipment and vehicles for dispatch to remote worksites. Indoor vehicle parking

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE MALMSTROM AIR FORCE BASE RELOCATE MISSILE MAINTENANCE FACILITY MALMSTROM SITE # 1 MONTANA 5. PROGRAM ELEMENT CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) 27576 212-216 2528/NZAS173001 14,600

space is needed for maximum efficiency in dispatch preparation, regardless of weather, some of which is severe enough to limit outdoor exposure to 15 minute work periods. Indoor vehicle storage also is needed for standby resources to meet contingencies, especially in winter when vehicles have to meet specific environmental parameters prior to loading mission specific components/equipment. Indoor vehicle parking also slows degradation of hoses, seals, wiring, and tires of vehicles that were purpose built for missile maintenance tasks. Missile Maintenance is also unique in its requirements to have large scale tools and handling equipment on hand and mission ready.

CURRENT SITUATION: Currently Missile Maintenance Dispatch personnel, equipment, parts and vehicles are stored in Bldg 1440. Due to the Helo/TRF beddown, the Missile Maintenance Dispatch area will be displaced from Bldg 1440 so that Bldg 1440 can be retrofitted for the new helicopters. Since Malmstrom is in a northern tier climate, the equipment, personnel and vehicles need a new facility to operate in a climate controlled environment. Currently Missile Maintenance functions are not collocated which is leading to decreased efficiency.

IMPACT IF NOT PROVIDED: The Missile Maintenance personnel will waste crew hours to warm up vehicles, run performance tests on the vehicles, transport parts/equipment from a facility to the vehicles, clear snow off vehicles in the winter, and security inspect each vehicle before use. Some components cannot be loaded for transport until interior van temperatures meet TO specified parameters. Unique, purpose-built equipment/parts are temperature sensitive and will be damaged if exposed to extreme cold/hot temperatures. Regulations limit team work day length so delays in getting off base may force teams to Remain Overnight (RON) taking 2 days to complete a single dispatch. Delays generated by cold vehicles compromises opportunities to complete daylight-only tasks.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." An economic analysis of reasonable alternatives to meet this requirement (status quo, renovation, new construction) was accomplished. The proposed project was determined to be the most effective option. Base Civil Engineer, (406) 731-6188. 4,047 SM = 43,565 SF.

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

1. COMPONENT	. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE		(comp	iter gene	erated)					
3. INSTALLATI	ON AND L	OCATION		4. PROJECT	TITLE				
MALMSTROM AIR MALMSTROM SIT MONTANA	FORCE E E # 1	BASE		RELOCATE MI	SSILE MAINTENA	NCE			
5. PROGRAM EL	EMENT	6. CATEGORY COD	E 7. PRO	JECT NUMBER	8. PROJECT CC)ST (\$000)			
27576		212-216	2528	/NZAS173001	14,	600			
12. SUPPLEMEN	TAL DATA	\:							
a. Estimate	d Design	n Data:							
(1) Statu	.s:								
(a) Da	te Desig	n Started			30	-JUL-15			
(D) Pa	rametric	COST ESTIMATES U	isea to a	evelop costs		YES			
* (C) Pe	rcent Co	ompiete as or ui u	AN 2016		1 1	15%			
^ (d) Da	te 35% I	m Complete			20	-MAR-16			
(e) Da	erov St	n compiete dv/Life-Cvale and	lucic wa	g/will be per	30 stormed	-SEP-10 VFC			
(1) 51	lergy but	idy/hite-cycle and	туртр wa	s/will be per	TOTMED	165			
(2) Basis	:								
(a) St	andard o	or Definitive Desi	gn -			NO			
(b) Wh	ere Desi	ign Was Most Recer	tly Used	-					
(3) Total	Cost (d	(a) = (a) + (b) or	(d) + (e):		(\$000)			
(a) Pr	oduction	n of Plans and Spe	cificati	ons		876			
(b) All Other Design Costs									
(c) To		1,314							
(d) Co		1,095							
(e) In	-house					219			
(4) Const	ruction	Contract Award				17 FEB			
(5) Const	ruction	Start				17 MAR			
(6) Const	ruction	Completion				19 APR			
* Indicat which i cost an	es compl s compar d execut	letion of Project rable to tradition rability.	Definiti al 35% d	on with Param esign to ensu	metric Cost Es nre valid scop	timate e,			
b. Equipmen	t associ	ated with this pr	oject pr	ovided from o	other appropri	ations:			
EQUIPMEN	I NOMENC	LATURE A	PROCURII PPROPRIA	FISC NG APPRO TION OR RE	AL YEAR DPRIATED EQUESTED	COST (\$000)			
FF&E			3080	2	2018	400			

	F١	Y 2017 I		RY CON	STRUC		ROGRA	M	2. DAT	E (YYYMMDD)
										20150911
3. INSTALLATION AND LOCATION				4. CON	IMAND				5. ARE	
				AIR CO	MBAT C	OMMAN	D		COS	
	(1) 5		- NIT	(0)		TO	(0) (1.23
6. PERSONNEL	(1) F	ERMAN	ENI	(2)	STUDEN	IIS	(3) 8	SUPPOR	IED	TOTAL
10.05	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	40.004
a. AS OF 30-Sep-15	1764	7310	1277	45	11	0	79	125	193	10,804
b. END FY 2021	1764	7310	1277	45	11	0	79	125	193	10,804
	14,160	4 5								4 400 040
b. INVENTORY TOTAL AS OF	30-Sep-	15 DY								4,430,213
C. AUTHORIZATION NOT YET IN IN	IVENIO	RY 								281,590
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017) 10,0									10,600	
e. PLANNED IN NEXT FOUR PROG	FRAM YE	EARS (F	Y 2018-2	2021)						33,778
t. REMAINING DEFICIENCY										218,900
g. GRAND TOTAL										4,975,081
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY)	2017)							
	CAT	EGORY						CC	ST	DESIGN STATUS
<u>CODE</u> <u>PRO</u>			<u>SCC</u>	<u>DPE</u>	<u>(\$0</u>	<u>00)</u>	START COMPLETE			
121-124 F-35A POL Fill Stand Addit	ion					186	SM	10,	600	Design Build
							TOTAL	10,	600	
9. FUTURE PROJECTS IN NEXT FO	UR PRO	GRAM Y	EARS (FY 2018	-FY 2021)				
171-212 OTI Virtual Warfare Center						1,024	SM	30,	000	
171-212 CRH Simulator						556	SM	3,7	78	
							TOTAL	33,	778	
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	2 1	.2	
10. MISSION OR MAJOR FUNCTION	IS									
10. Mission or Major Functions: USAF	Warfare	e Center	manage	s advanc	ed pilot t	raining, o	operatior	n, testing	, and tac	tics development in air,
space, and cyberspace. Its named unit	, Nevada	Test &	Training	Range (N	NTTR), o	versees	the 15,0	00 sq. m	ile Neva	da Test and Training
Range Complex that includes an emerge	gency air	field. 57t	h Wing,	A-10A, ⊢	-15C/E,	F-16, F-2	22A, F-3		60G. 57th	Wing missions include
Combat Training Sq.). training for inter	national r	oersonne	el in ioint	firepowe	n ny (US/ r procedi	ures and	technia	Jes (57th	Operatio	ons Gp.): and USAF Air
Demonstration Sq. (Thunderbirds).		2.30/110			. p. 00000				eporati	
11. OUTSTANDING POLLUTION AN	D SAFE	TY DEFI	CIENCIE	ES (FY 2)	017 - FY	2021)				
a. Air Pollution								(C	
b. Water Pollution								(C	
c. Occupational Safety and Heal	th							(C	
d. Other Environmental								(C	
							TOTAL	(0	
DD Form 1390. JUL 1999		PRI	EVIOUS E	DITION IS	OBSOLE	TE.				

FEBRUARY 2016

1. COMPONENT		FY 2017 MILIT.	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE		
AIR FORCE		(c	omputer gen	erate	d)				
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITL	3			
NELLIS AIR FORC	E BASE	2		F-35A	POL FILL S	TAND ADDITIC	ON		
NELLIS SITE # 1 NEVADA									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
27142		121-124	3056/	RKMF1/	73001		10,600		
		9. C	OST ESTIMA	TES		•			
		ттем		π./м	OUANTITY	UNIT	COST		
					20-20-20-20-20-20-20-20-20-20-20-20-20-2		(\$000)		
PRIMARY FACILIT	IES						8,531		
POL FILLSTANDS	(126-	925)		OL	2	322,500	(645)		
PUMPHOUSE (121	-124)			SM	186	22,215	(4,132)		
FUEL PIPING SY	STEM,	600 GPM (121-122)		EA	3	1,195,667	(3,587)		
SUSTAINABILITY	& ENE	RGY MEASURES		LS			(167)		
SUPPORTING FACIN	LITIES						761		
UTILITIES				LS			(187)		
SITE IMPROVEME	NTS			LS			(135)		
PAVEMENTS				LS			(439)		
SUBTOTAL							9,292		
CONTINGENCY (5.0%) 46									
TOTAL CONTRACT	COST						9,757		
SUPERVISION, IN:	SPECTI	ON AND OVERHEAD	(5.7%)				556		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)				372		
TOTAL REQUEST							10,684		
TOTAL REQUEST (1	ROUNDE	D)					10,600		
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ict two new	v jet fuel	truck fill		
stands and one	e new	pumphouse to suppo	ort the fu	el re	quirements	s of additi	onal F-35A		
aircraft arriv	ving a	t Nellis AFB, NV.	The proj	ect w	ill includ	le fill sta	nds and all		
tie-in piping	assoc	lated with transfe	erring jet fuel tru	IUEL ab fi	ll stands	pump nouse	and l gongrete		
pad for refuel	ling t	ruck drive-through	n, sitewor	k and	fencing,	utilities	and all		
other support	as ne	cessary. Facilitie	es will be	desi	gned as pe	ermanent co	nstruction		
in accordance	with	the DoD Unified Fa	acilities	Crite	eria (UFC)	1-200-01,	General		
Building Requi	remen	ts and UFC 1-200-0)2, High P	erfor	mance and	Sustainabl	e Building		
Requirements.	This	project will comp	oly with D	oD an	titerrori	sm/force pr	otection		
requirements p	ber UF		0.01	h = +	dand. 0 01				
	10: 10	OL Adequate: a	ооц зи.			-			
PROJECT: F-35	A POL	Fill Stand Addits	Lon (New M	15510	n)		. .		
REQUIREMENT:	Nelli	S AFB 15 the design the second	nated bed school for	down the	Location 1	or Force D	evelopment		
POL loading fa	acilit	ies, adequately si	zed and c	onfiq	ured, are	required t	o support		
the permanent beddown of 36 Primary Training Aircraft which began in FY13/2 qtr									
with the bulk of the aircraft (24) arriving in FY16/3 qtr and later.									
CURRENT SITUATION: Inadequate jet fuel POL fuel loading capacity is hindering the									
fuel trucks at	fuel trucks at Nellis AFB from loading aircraft at Nellis in a timely and efficient								
manner. Start	ing i	n FY 16/3 qtr, Nel	llis AFB w	ill n	ot have en	nough jet f	uel loading		
capacity avail	able	to accommodate the	addition	al 24	F-35A ai	craft for	Weapons		
DD FORM 1391,	DEC 9	9 Previou	s editions	s are	obsolete.		Page No.		

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE										
AIR FORCE		(c	omputer gen	nerated)						
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE						
NELLIS AIR FORC	E BASE	1		F-35A POL FILL S	TAND ADDITION					
NELLIS SITE # 1										
NEVADA			Γ							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	JST (\$000)				
27142		121-124	3056	/RKMF173001	10	,600				
School trainin	g fun	ctions. Nellis A	FB proper	has had signifi	cant growth	since 2000				
Aggressor Bedd	lown (48 aircraft) and t	he expans	(10 allClait),	rcises and o	o ther force				
structure acti	ons.	Nellis is project	ted to hav	re over 180 assi	qned aircraf	t when all				
actions are co	mplet	e. All excess jet	t fuel POL	loading facili	ties have be	en at				
capacity for t	he la	st 5 to 7 years, a	and additi	onal requiremen	ts have been					
documented thr	ough	the BRAC 2005 proc	cess and p	reviously appro	ved new weap	on system				
facility proje	cts.	Nellis AFB is a d	critical a	sset for capabi	lities and t	actics				
testing of new	weap	on systems and the	e training	of combat forc	es. The ins	E 16a				
F-22As, and no	w the	F-35A, all of wh	ich suppor	t operational t	est, weapon	school.				
and flag exerc	ises.	1 5511, 411 61 411	Lon Duppor	e operacionar e	ese, acapon	50110017				
IMPACT IF NOT	PROVI	DED: Without adec	nuate jet	fuel POL loadin	g capacity t	o support				
the new F-35A	aircr	aft scheduled to a	arrive at	Nellis AFB, the	ability to	generate				
the necessary aircraft sorties to support operational test and weapons school										
mission requirements will be severely impacted. Other flying missions at Nellis										
AFB will be severely impacted due to the slowing down of fuel loading capabilities										
of combat airc	raft	at Nellis AFB, NV.	•							
ADDITIONAL: T	his p	roject meets the (criteria/s	cope specified	in Part II of	f Military				
"Facility Regu	ireme	nts" and the weap	on system	Facility Requir	ement Plan.	An				
analysis of re	asona	ble options for a	ccomplishi	ng this project	(status quo	,				
renovations, n	lew co	nstruction) was ad	ccomplishe	d. It indicate	s there is o	nly one				
option that wi	.11 me	et operational rec	quirements	; new construct	ion. A cert	ificate of				
exception is b	eing	prepared. Base C	ivil Engin	eer: (702) 652-	4833. Pumpho	use: 186				
SM = 2001 SF.			_							
JOINT USE CERT	IFICA	<u>TION:</u> This facilit	ty can be	used by other c	omponents on	an "as				
requirements	is; n	owever, the scope	or the pr	oject is based	on Air Force					

[]						1
1. COMPONENT AIR FORCE		FY 2017 MILITARY C	ONSTRU er gei	JCTION PROJECT nerated)	DATA	2. DATE
3 TNGTALLATT	ד תואג זאר				T T 72	
ST INDIALLAIT		-		4. PRODECT TI	ILE	1011
NELLIS AIR FO	RCE BASE	5		F-35A POL FIL	L STAND ADDIT	ION
NEVADA	Ŧ					
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CO)ST (\$000)
27142		121-124	305	6/RKMF173001	10	,600
12. SUPPLEMEN	TAL DAT.	A:				
a. Estimate	d Design	n Data:				
(1) Proje	ct to be	e accomplished by de	sign-	build procedur	es	
(2) Basis	:					
(a) St (b) Wh	andard ere Des	or Definitive Design ign Was Most Recent:	n - ly Use	ed -		NO
(3) All O	ther Des	sign Costs				424
(4) Const	ruction	Contract Award				17 FEB
(5) Const	ruction	Start				17 MAR
(6) Const:	ruction	Completion				18 SEP
(7) Energ	y Study/	Life-Cycle analysis	was/	will be perfor	med	YES

1. COMPONENT	F	EX 2017 MILITARY CONSTRUCTION PROGRAM 2. DATE (YYYMMDD)							E (YYYMMDD)	
										20150911
3. INSTALLATION AND LOCATION				4. CON	IMAND				5. ARE	
Cannon Air Force Base				AFSOC					COS	
New Mexico										1.01
6. PERSONNEL	(1) F	PERMAN	ENT	(2)	STUDE	ITS	(3) \$	SUPPOR	TED	TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	_
a. AS OF 30-Sep-15	914	3718	438	0	0	0	0	0	0	5,070
b. END FY 2021	781	3620	455	0	0	0	0	0	0	4,856
7. INVENTORY DATA (\$000)										
a. TOTAL ACREAGE	5,756									
b. INVENTORY TOTAL AS OF	30-Sep-	-15								1,640,884,568
c. AUTHORIZATION NOT YET IN I	NVENTO	ORY								54,100
d. AUTHORIZATION REQUESTED	IN THIS	S PROGE	RAM (F)	Y 2017)						21,000
e. PLANNED IN NEXT FOUR PRO	GRAM Y	EARS (=Y 2018	-FY 2021	1)					48,700
f. REMAINING DEFICIENCY										0
g. GRAND TOTAL										1,641,008,368
8. PROJECTS REQUESTED IN THIS	S PROGE	RAM (FY	2017)							
CATEGORY								CC	ST	DESIGN STATUS
CODE PRO	JECT TI	<u>TLE</u>				<u>SC0</u>	<u>DPE</u>	<u>(\$0</u>	<u>00)</u>	<u>START</u> <u>COMPLETE</u>
740-674 NORTH FITNESS CENTE	R					5,032	SM	21,	000	Design Build
							TOTAL	21,	000	
9. FUTURE PROJECTS IN NEXT FO	OUR PRO	OGRAM	YEARS	(FY 201	8 - FY 2	021)				
116-662 Construct Hot Cargo Pad						21,602	SM	40,	000	
841-161 Utilities Melrose Air Force	Range					25,000	LM	8,7	700	
							TOTAL	48,	700	
R&M UNFUNDED REQUIREMENT (S	\$M)						TOTAL	. 16	6.1	
10. MISSION OR MAJOR FUNCTIO	NS									
The primary mission of the 27th SOW	is to exe	ecute spe	ecialized	airpowe	r from a	premier i	installati	on. The \	wing's co	ore missions include close
air support, agile combat support, info	rmation	operation	ns, preci	sion strik	e, forwa	rd presei	nce and	engager	nent, inte	elligence, surveillance and
reconnaissance operations, and spec	ializea m	iobility.								
11. OUTSTANDING POLLUTION AN	ND SAFE	TY DEF	ICIENC	IES (FY)	2017 - F	Y 2021)				
a. Air Pollution								(C	
b. Water Pollution								(C	
c. Occupational Safety and Hea	alth							(C	
d. Other Environmental								(C	
							TOTAL	. (0	-
DD Form 1390, JUL 1999			PR	EVIOUS E	DITION IS	S OBSOLE	ETE.			

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE			
AIR FORCE		(computer generated)								
3. INSTALLATION	, SITE	AND LOCATION		4. PF	OJECT TITLE	3	·			
CANNON AIR FORC	E BASE	1		NORTH	I FITNESS CE	INTER				
CANNON AFB SITE	# 1									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)			
27596		740-674	1551/	CZQZ0	83500		21,000			
		9. C	OST ESTIMA	TES			-			
		ITEM		U/M	QUANTITY	UNIT	COST			
							(\$000)			
PRIMARY FACILIT	IES				E 030	0 500	15,596			
FITNESS CENTER	(740-	(750, 810)		SM	5,032	2,583	(12,998)			
INDOOR SWIMMIN	AND F	(750-812)		EA		2,292,024	(2,292)			
SUSIAINABILIII	AND E	NEKGI MEASURES		15			(306)			
SUPPORTING FACI	LITIES						2,815			
UTILITIES				LS			(500)			
PAVEMENTS				LS			(1,325)			
SITE IMPROVEME	NTS			LS			(650)			
COMMUNICATIONS				LS			(300)			
PASSIVE FORCE	PROTEC	TION		LS			(40)			
SUBTOTAL							18,411			
CONTINGENCY	(5.0%))					921			
TOTAL CONTRACT (COST						19,331			
SUPERVISION, IN:	SPECTI	ON AND OVERHEAD	(5.7%)				1,102			
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)				736			
TOTAL REQUEST							21,170			
TOTAL REQUEST (1	ROUNDE	D)					21,000)			
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				(1,440			
10. Descripti	on of	Proposed Construc	tion: Co	nstru	ct a facil	lity utiliz:	ing			
conventional d	lesign	construction meth	lods to acc	COMMO	date the r	nission of t	the and			
base design s	tanda	rds. In addition	. local ma	teria	ls and cor	struction f	cechniques			
shall be used	where	cost effective.	Facility	will	be designe	ed as a peri	nanent			
construction i	n acc	ordance with DoD (Jnified Fa	cilit	ies Criter	ria (UFC) 1	-200-01,			
General Buildi	.ng Re	quirements and UFC	2 1-200-02	, Hig	h Performa	ance and Su	stainable			
Building Requi	remen	t. Comply with Do	D minimum	Anti	terrorism	Standards	Eor			
buildings per	UFC 4	-010-01. Includes	s a 4-lane	25 m	eter pool,	, indoor ru	ning track			
(1//th mile) w	train	ing and group even	ind an open	na.m	kout area	with field	rooms			
showers, toile	ets an	d sinks, support f	Eunctions	(stor	age, janit	cor's close				
mechanical roo	m, el	ectrical room, etc	c.) and a :	front	desk/admi	in area, and	all other			
supporting fac	iliti	es.								
Air Conditioni	ng:	100 Tons								
11. Requiremen	nt: 50	32 SM Adequates	: 0 SM :	Subst	andard: 50	002 SM				
PROJECT: Cons	PROJECT: Construct North Fitness Center. (Current Mission)									
REQUIREMENT:	Proje	ct will support 6	,100+ opera	ation	and maint	enance pers	sonnel			
associated wit Cannon AFB. F	h the rojec	beddown of the Ai t must provide an	ir Force Sj adequate :	pecia facil	l Operation	ons Command nance combat	mission at readiness			

DD FORM 1391, DEC 99 Previous editions are obsolete.

1. COMPONENT		FY 2017 MILITARY CONSTRUCTION PROJECT DATA							
AIR FORCE		(c							
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE									
CANNON AIR FORC	IR FORCE BASE NORTH FITNESS CENTER								
CANNON AFB SITE	# 1								
NEW MEXICO									
5. PROGRAM ELEM	ENT	T 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000)							
27596		740-674 1551/CZQZ083500 21,000							

by supporting unit commanders' fitness program and provide fitness and sports opportunities to all authorized users. This new fitness center will provide adequate fitness functions for the personnel on the north side of base. A new fitness c enter is needed to aid in the retention of airmen and keeping airmen "fit to fight".

<u>CURRENT SITUATION:</u> The existing 33 year old fitness center was designed for half the population that Cannon now has under the AFSOC beddown. During peak hours, facility crowding does not allow patrons to finish their workouts due to time limits on equipment or unavailability of equipment. Units are unable to implement effective fitness programs due to the limited space and availability of fitness rooms. Peak aerobic training requirements are driving the removal of many standard fitness center features, e.g. racquetball courts converted to aerobic rooms and male and female locker rooms reduced to accommodate additional showers. The maintenance and repair of the facility more than doubled from 2007 to 2008, and increased 175% in 2009 with over 2,000 man-hours expended to keep the facility running. The Health and Wellness Center was relocated from the fitness center to the existing medical clinic and will be incorporated into the new Medical/Dental Clinic, which is currently under design.

IMPACT IF NOT PROVIDED: As a remote and isolated base with limited recreational facilities on base and around the local community, a fitness center is a main support for physical fitness and recreation which is critical not only to mission readiness, but also to the health, wellness and morale of military personnel and their dependents. Continued lack of adequate fitness facilities will only worsen as more units reach full manpower strength numbers. The readiness of Cannon's Airmen to be "fit-to-fight" depends on providing up to date, reliable, and appropriately sized fitness and recreational facilities. Without modern and properly sized fitness centers, AFSOC personnel assigned to Cannon will continue to have an inadequate physical fitness and recreational facilities, degrading the mission. Airmen will be limited in achieving a total physical conditioning program that emphasizes proper aerobic conditioning, strength and flexibility training. Lack of these health benefits from an active lifestyle will decrease productivity, create the inability to optimize health, and lower the level of readiness.

<u>ADDITIONAL:</u> Between July 2013 and June 2014, 148 days of physical training tests were cancelled due to inclement weather, and there is no permanent indoor PT testing capability. Currently, a temporary hangar is being utilized for indoor PT testing, but that is only an interim solution. This project meets the criteria/scope in Air Force Manual 32-1084, "Facility requirements" and Air Force Services Facilities Design Guide for Fitness Centers. An economic analysis has been completed considering all known alternative options (status quo, new construction, add/alter). New construction was found to be the most cost effective. Base Civil Engineer: 575-784-2008. Fitness Center: 5,032 SM = 54,175 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.

DD FORM 1391, DEC 99

. COMPONENT						
		FY 2017 MILITARY (CONSTRUCTION	PROJECT	DATA	2. DATE
IR FORCE		(comput	er generated	1)		
3. INSTALLATIO	ON AND L	OCATION	4. PRC	JECT TIT	LE	
CANNON AIR FOR	RCE BASE		NORTH	FITNESS	CENTER	
NEW MEXICO	16 # 1					
5. PROGRAM ELI	EMENT	6. CATEGORY CODE	7. PROJECT	NUMBER	8. PROJECT CO	OST (\$000)
27596		740-674	1551/CZQZ	083500	21,	,000
12. SUPPLEMEN	TAL DATA					
a. Estimate	d Design	Data:				
(1) Projec	t to be	accomplished by de	esign-build p	procedure	25	
(2) Basis:	:					
(a) St (b) Wh	andard o ere Desi	or Definitive Desig gn Was Most Recent	n - ly Used -			NO
(3) All Ot	her Des	ign Costs				1,050
(4) Constr	ruction	Contract Award				17 JAN
(5) Constr	ruction	Start				17 APR
(6) Constr	ruction	Completion				19 JAN
(7) Energy	/ Study/	Life-Cycle analysi:	s was/will be	e perform	ned	YES
			CURING ADDRC	FISCA	L YEAR	COST
EQUIPMENT	NOMENCI	PRO ATURE	CURING APPRC	FISCA APPRO OR RE	L YEAR PRIATED QUESTED	COST (\$000
EQUIPMENT GYMNASIUM	NOMENCI EQUIPMI	PRO •ATURE ENT	CURING APPRC 3400	FISCA APPRO OR RE 2	L YEAR PRIATED QUESTED 018	COST (\$000 1,360
EQUIPMENT GYMNASIUM COMMUNICA	NOMENCI EQUIPMI TIONS E(PRO ATURE ENT QUIPMENT	CURING APPRC 3400 3400	FISCA APPRO OR RE 2 2	L YEAR PRIATED QUESTED 018 018	COST (\$000 1,360 30
EQUIPMENT GYMNASIUM COMMUNICA FURNITURE	NOMENCI EQUIPMI TIONS EQ	PRO ATURE ENT QUIPMENT	CURING APPRC 3400 3400 3400	FISCA APPRO OR RE 2 2 2	L YEAR PRIATED QUESTED 018 018 018	COST (\$000 1,360 30 50
EQUIPMENT GYMNASIUM COMMUNICA FURNITURE	NOMENCI EQUIPMI TIONS EQ	PRO ATURE ENT QUIPMENT	CURING APPRC 3400 3400 3400	FISCA APPRO OR RE 2 2 2	L YEAR PRIATED QUESTED 018 018 018	COST (\$000 1,360 30 50
EQUIPMENT GYMNASIUM COMMUNICA FURNITURE	NOMENCI EQUIPM TIONS EQ	PRO ATURE ENT QUIPMENT	CURING APPRC 3400 3400 3400	FISCA APPRO OR RE 2 2 2	L YEAR PRIATED QUESTED 018 018 018	COST (\$000) 1,360 30 50
EQUIPMENT GYMNASIUM COMMUNICA FURNITURE	NOMENCI EQUIPMI TIONS EQ	PRO ATURE ENT QUIPMENT	CURING APPRC 3400 3400 3400	FISCA APPRO OR RE 2 2 2	L YEAR PRIATED QUESTED 018 018 018	COST (\$000 1,360 30 50
EQUIPMENT GYMNASIUM COMMUNICA FURNITURE	NOMENCI EQUIPM TIONS EQ	PRO ATURE ENT QUIPMENT	CURING APPRC 3400 3400 3400	FISCA APPRO OR RE 2 2 2	L YEAR PRIATED QUESTED 018 018 018	COST (\$000 1,360 30 50
EQUIPMENT GYMNASIUM COMMUNICA FURNITURE	NOMENCI EQUIPMI TIONS E(PRO LATURE ENT QUIPMENT	CURING APPRC 3400 3400 3400	FISCA APPRO OR RE 2 2 2	L YEAR PRIATED QUESTED 018 018 018	COST (\$000 1,360 30 50
EQUIPMENT GYMNASIUM COMMUNICA FURNITURE	NOMENCI EQUIPMI TIONS E(PRO "ATURE ENT QUIPMENT	CURING APPRC 3400 3400 3400	FISCA APPRO OR RE 2 2 2	L YEAR PRIATED QUESTED 018 018 018	COST (\$000 1,360 30 50
EQUIPMENT GYMNASIUM COMMUNICA FURNITURE	NOMENCI EQUIPMI TIONS E(PRO LATURE ENT QUIPMENT	CURING APPRC 3400 3400 3400	FISCA APPRO OR RE 2 2 2	L YEAR PRIATED QUESTED 018 018 018	COST (\$000 1,360 30 50
EQUIPMENT GYMNASIUM COMMUNICA FURNITURE	NOMENCI EQUIPMI TIONS EQ	PRO ATURE ENT QUIPMENT	CURING APPRC 3400 3400 3400	FISCA APPRO OR RE 2 2 2	L YEAR PRIATED QUESTED 018 018 018	COST (\$000 1,360 30 50
EQUIPMENT GYMNASIUM COMMUNICA FURNITURE	NOMENCI EQUIPMI TIONS E(PRO LATURE ENT QUIPMENT	CURING APPRC 3400 3400 3400	FISCA APPRO OR RE 2 2 2	L YEAR PRIATED QUESTED 018 018 018	COST (\$000 1,360 30 50
EQUIPMENT GYMNASIUM COMMUNICA FURNITURE	NOMENCI EQUIPMI TIONS EQ	PRO LATURE ENT QUIPMENT	CURING APPRC 3400 3400 3400	FISCA APPRO OR RE 2 2 2	L YEAR PRIATED QUESTED 018 018 018	COST (\$000 1,360 30 50
EQUIPMENT GYMNASIUM COMMUNICA FURNITURE	NOMENCI	PRO LATURE ENT QUIPMENT	CURING APPRC 3400 3400 3400	FISCA APPRO OR RE 2 2 2	L YEAR PRIATED QUESTED 018 018 018	COST (\$000 1,360 30 50
EQUIPMENT GYMNASIUM COMMUNICA FURNITURE	NOMENCI EQUIPMI TIONS EQ	PRO LATURE ENT QUIPMENT	CURING APPRC 3400 3400 3400	FISCA APPRO OR RE 2 2 2	L YEAR PRIATED QUESTED 018 018 018	COST (\$000 1,360 30 50
EQUIPMENT GYMNASIUM COMMUNICA FURNITURE	NOMENCI	PRO LATURE ENT QUIPMENT	CURING APPRC 3400 3400 3400	FISCA APPRO OR RE 2 2 2	L YEAR PRIATED QUESTED 018 018 018	COST (\$000 1,360 30 50
EQUIPMENT GYMNASIUM COMMUNICA FURNITURE	NOMENCI	PRO LATURE ENT QUIPMENT	CURING APPRC 3400 3400 3400	FISCA APPRO OR RE 2 2 2	L YEAR PRIATED QUESTED 018 018 018	COST (\$000 1,360 30 50

	F	FY 2017 MILITARY CONSTRUCTION PROGRAM 2. DATE (YYYMMDD) 20150011								
3. INSTALLATION AND LOCATION				4. CON	MAND				5 ARE	
HOLLOMAN AIR FORCE BASE							_		COS	TINDEX
NEW MEXICO				AIR CO	MBAT C	OMMAN	D			0.99
6. PERSONNEL	(1) F	PERMAN	ENT	(2)	STUDE	ITS	(3) \$	SUPPOR	TED	тоты
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL
a. AS OF 30-Sep-15	274	2671	696	0	60	0	96	359	226	4,382
b. END FY 2021	274	2671	696	0	60	0	96	359	226	4,382
7. INVENTORY DATA (\$000)										
a. TOTAL ACREAGE	53,603									
b. INVENTORY TOTAL AS OF	30-Sep-	15								2,305,340
c. AUTHORIZATION NOT YET IN IN	IVENTO	RY								84,170
d. AUTHORIZATION REQUESTED	IN THIS	PROGR	AM (FY	2017)						10,600
e. PLANNED IN NEXT FOUR PROG	RAM YE	EARS (F	Y 2018-2	2021)						3,200
f. REMAINING DEFICIENCY										78,650
g. GRAND TOTAL										2,481,960
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY)	2017)							
	CAT	EGORY						CC	DST	DESIGN STATUS
CODE PRO		ILE				SCO		<u>(\$0</u>	<u>100)</u>	START COMPLETE
116-662 Hazardous Cargo Pad and	Taxiway	,				50,500	SM	10,	600	Design Build
							TOTAL	10	600	
				EV 2010	EV 202	()	TUTAL	10,	000	
140.511 PPA Eixed Ground Station	Encility	GRAWI	EARS	F12010	- 1 202) 558	SM	3.0	200	
149-511 RFATILEd Glound Station	raciiity					550	3101	0,2	200	
							τοται	3 3	200	
							IUIAL	5,2	200	
R&M UNEUNDED REQUIREMENT (\$	M)						τοται	93	2 9	
10 MISSION OF MA IOR FUNCTION	19						TOTAL	. JI	2.3	
Air Combat Command: a fighter wing w	/ith F-16	training	squadror	ns one G	erman F	-4 trainir	na sauad	lron a re	motely ni	iloted aircraft (RPA)
training mission, a weapons testing and	d evaluat	tion wing,	, and the	war rese	erve mate	erial bare	base si	upport gr	oup.	
0 <i>i</i> 1 0		0.								
11. OUTSTANDING POLITION AN				S (EV 2	017 - FV	2021)				
a. Air Pollution						2021)		(0	
								·	-	
b. Water Pollution								(0	
								·	-	
c. Occupational Safety and Heal	th							(0	
								·		
d. Other Environmental								(0	
								·	-	
							TOTAL		0	
DD Form 1390. JUL 1999		PR	EVIOUS E	DITION IS		TE.				

1. COMPONENT		FY 2017 MILI	TARY CONSTRU	CTION	PROJECT DA	TA	2. DATE	
AIR FORCE		(
3. INSTALLATION	, SIT	E AND LOCATION		4. PF	ROJECT TITL	E		
HOLLOMAN AIR FO	RCE B.	ASE		HAZAR	DOUS CARGO	PAD AND TAXIW	AY	
HOLLOMAN SITE #	1							
NEW MEXICO		1						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT C	OST (\$000)	
27576		116-662	2352/1	KWRD04	3006	1	0,600	
		9.	COST ESTIMA	TES				
						UNIT	COST	
		ITEM		U/M	QUANTITY		(\$000)	
HAZARDOUS CARGO	PAD &	TAXIWAY					8,192	
ACCESS TAXIWAY	(112-	-211)		SM	16,500	200	(3,300)	
ACCESS TAXIWAY	, PAVI	ED SHOULDER (116-642	2)	SM	21,000	128	(2,688)	
HAZARDOUS CARGO	O PAD	(116-662)		SM	7,500	200	(1,500)	
HAZARDOUS CARGO	O PAD,	, PAVED SHOULDER (11	L6-642)	SM	5,500	128	(704)	
SUPPORTING FACII	LITIES	1					1,360	
LIGHTING				LS	(300)			
ACCESS ROAD				LS			(600)	
STRIPING				LS (10				
SITE PREPARATIO	ON			LS			(360)	
SUBTOTAL							9,552	
CONTINGENCY	(5	5.0%)					478	
TOTAL CONTRACT C	COST						10,030	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				572	
TOTAL REQUEST							10,601	
TOTAL REQUEST (F	ROUNDE	D)					10,600	
10. Descripti	on of	Proposed Constru	ction: Co	nstru	ct a Hazar	dous Cargo I	ad (HCP)	
and Access Tax	iway	that complies wit	h all Airf:	ield	and Explos	sive Safety o	riteria.	
Project will i	nclud	le an HCP consisti	ng of 7,50	0 SM	of concret	e and 50' as	phalt	
shoulders, as	well	as an Access Taxi	way consist	ting	of 16,500	SM of concre	te, also	
IWILD DU' ASDNA	II. SP	CULIDELS, AISO 1	ICLUCED ATE	DASE	COURSE. 8			

with 50' asphalt shoulders. Also included are base course, airfield marking, airfield lighting, a two-lane asphalt access road leading to the hazardous cargo pad, site improvements and all other necessary support. In addition, rerouting of existing utilities, storm drainage, paved shoulders, aircraft grounding system and aircraft tie down points will be part of the project. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD

antiterrorism/force protection requirements per UFC 4-010-01. 11. Requirement: 50500 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct a Hazardous Cargo Pad and Taxiway (Current Mission) REQUIREMENT: A hazardous cargo pad is required to load/unload explosives or other dangerous materials on cargo aircraft. This mission requires the location to meet both Airfield and Explosives Safety requirements. The taxiway provides aircraft access to the cargo pad. Pavement shall be medium load with tie down anchors and grounding points.

CURRENT SITUATION: Currently, the lack of a correctly-sited Hazardous Cargo Pad requires munitions-laden aircraft to park on Taxiway L during load/unload

1. COMPONENT	FY 2017 MILI	2. DATE							
AIR FORCE	(computer generated)								
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE									
HOLLOMAN AIR FORCE BASE HAZARDOUS CARGO PAD AND TAXIWAY									
HOLLOMAN SITE # 1									
NEW MEXICO									
5. PROGRAM ELEMEN	ROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8.								
27576	116-662 2352/KWRD043006 10,600								

operations. This drives the closure of Rwy 07/25 due to Explosives Safety regulations. Closure of Rwy 07/25 often results in single-runway operations, which drastically cuts sortie generation by both the F-16 FTU and the RPA FTU missions. In Calendar Year 2014, the runway closures directly impacted 320 sorties, out of the 8,078 total sorties flown (4%).

IMPACT IF NOT PROVIDED: If the Hazardous Cargo Pad and Taxiway are not constructed, routine closure of Rwy 07/25 will continue to result in single-runway operations, which will continue to drastically cut sortie generation by both the F-16 FTU and RPA FTU missions. The current estimated future sortie numbers for per Calendar Year is ~12,500 following complete beddown of the F-16 FTU mission at Holloman AFB. This would equate to an estimated 500 sorties per year impacted by the runway closures associated with the current Hazardous Cargo Pad.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. A preliminary analysis of reasonable options for accomplishing this project (status quo, new construction) was done. It indicates there is only one option that will meet operational requirements. An certificate of exception is being prepared. Base Civil Engineer: (575) 572 3071. Access Taxiway: 16,500 SM = 177,540 SF; Access Taxiway Paved Shoulder: 21,000 SM = 225,960 SF; Hazardous Cargo Pad: 7,500 SM = 80,700 SF; Hazardous Cargo Pad Paved Shoulder: 5,500 SM = 59,180 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 2017 MILITARY CO	ONSTRUC	TION PROJECT	DATA	2. DATE
AIR FORCE		(compute	er gene	rated)		
3. INSTALLATI	ON AND I	LOCATION		4. PROJECT	FITLE	
HOLLOMAN AIR	FORCE BA	ASE		HAZARDOUS CA	ARGO PAD AND I	AXIWAY
HOLLOMAN SITE	# 1					
						am (6000)
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	VECT NUMBER	8. PROJECT CC	ST (\$000)
27576		110-002	2352/	KWRD043006	10,	600
12. SUPPLEMEN	TAL DATA	A:				
(1) Statu		I Dala:				
(1) Statu (a) Da	te Desig	yn Started			15	-JUN-15
(b) Pa	rametrio	C Cost Estimates use	d to de	evelop costs	-	YES
* (c) Pe	ercent Co	omplete as of 01 JAN	1 2016	-		15%
* (d) Da	te 35% 1	Designed			31	-MAR-16
(e) Da	te Desig	gn Complete			30	-SEP-16
(f) En	ergy Sti	udy/Life-Cycle analy	rsis was	s/will be per	formed	YES
(2) Basis						
(a) St (b) Wh	andard o	or Definitive Design	v IIsed	_		NO
(5) 11	lere Des.	Ign was Most Recentl	.y oseu			
(3) Total	Cost (d	c) = (a) + (b) or (d)) + (e)	:		(\$000)
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		0
(b) Al	l Other	Design Costs				424
(c) To	otal					424
(d) Co	ntract					0
(0) 11	l-nouse					Ū
(4) Const	ruction	Contract Award				17 FEB
(5) Const	ruction	Start				17 MAR
(6) Const	ruction	Completion				18 SEP
* Indicat	es compl	letion of Project De	finitio	on with Param	etric Cost Es	timate
which i	s compai d execut	rable to traditional	. 35% d e	esign to ensu	re valid scop	e,
COSt an	la execut	Lability.				
b. Equipmen	t assoc:	iated with this proj	ect pro	ovided from c	other appropri	ations:
N/A						
L						

1. COMPONENT	E)	0017			етрис		POCP	M	2. DATE (YYYMMDD)		
AIR FORCE									20150911		
3. INSTALLATION AND LOCATION		4. COMMAND								A CONSTRUCTION	
KIRTLAND AIR FORCE BASE				AIR FO	RCF MA	TERIFI	сомма		COS	T INDEX	
NEW MEXICO	•									0.91	
6. PERSONNEL	(1) F	PERMAN	IENT	(2)	STUDE	NTS	(3) \$	SUPPOR	TED	TOTAL	
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF 30-Sep-15	350	1152	1742	0	0	0	798	2073	799	6,914	
b. END FY 2021	346	1151	1883	0	0	0	702	2063	793	6,938	
7. INVENTORY DATA (\$000)	12 0 1 2										
a. IOTAL ACREAGE	43,04Z	15								2 446 545	
		-15 V 90								2,440,515	
				(2017)						7 300	
	GRAM Y	FARS (=Y 2018	-2021)						40,316	
f REMAINING DEFICIENCY			12010	2021)						566 133	
g GRAND TOTAL										3,138,066	
8. PROJECTS REQUESTED IN THIS	PROGE	RAM (FY	(2017)							0,100,000	
	CAT	EGORY	2011)					CO	ST	DESIGN STATUS	
CODE PRO		TLE				sco	OPE	(\$0	00)	START COMPLETE	
171-212 CRH Simulator						902	SM	7,3	300	Design Build	
							-	,		0	
							TOTAL	7,3	600		
9. FUTURE PROJECTS IN NEXT FC	OUR PRO	OGRAM	YEARS	(FY 2018	8-FY 202	21)					
116-662 Construct Hot Cargo Pad						49,000	SM	12,	596		
171-214 PJ/CRO Aquatics & Aerial	Training	Facility				4,304	SM	19,	700		
730-142 Replace Fire Station 3						903	SM	8,0)20		
							IOTAL	40,	316		
							TOTAL	12	0.2		
R&M UNFUNDED REQUIREMENT (TUTAL	13	9.2		
The 377th Air Base Wing is the bost of	və Iraanizati	ion at Kir	tland AF	B activa	ted unde		on 1 la	nuary 10	03 and h	ecame part of the Nuclear	
Weapons Center on 31 March 2006.	The Wing	g operate	es and n	naintains	the Air F	orce's si	ixth large	est base	and an A	F/VA joint medical facility.	
The Wing provides worldwide readine	ss, secui	rity and s	support f	or AF Op	erationa	l Test an	d Evalu	ation Cer	nter, AF S	Safety Center, AF	
Inspection Agency, two AF Research	Lab dired	ctorates,	Defense	e Threat I	Reductio	n Agenc	y, Depa	rtment of	Energy a	and Sandia National	
Laboratories.											
11. OUTSTANDING POLLUTION AN		TY DEF		ES (FY :	2017 - F	Y 2021)					
a. Air Pollution				- (- /		()		
b. Water Pollution								()		
c. Occupational Safety and Hea	lth							()		
d. Other Environmental								()		
							TOTAL)		
DD Form 1390, JUL 1999		PRI	EVIOUS E	DITION IS	S OBSOLI	ETE.					

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DAT	ГА	2. DATE			
AIR FORCE		(c								
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE		I			
KIRTLAND AIR FO KIRTLAND SITE # NEW MEXICO	RCE BA	SE		COMBAT RESCUE HELICOPTER (CRH) SIMULATOR						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)			
27229		171-212	2445/	MHMV1	.03108		7,300			
		9. C	OST ESTIMA	TES						
		ТТЕМ		∏./м	OUANTTTY	UNIT	COST			
					20-20-20-20-20-20-20-20-20-20-20-20-20-2		(\$000)			
PRIMARY FACILIT	IES						4,120			
FLIGHT SIMULAT	OR (17	1-212)		SM	902	4,478	(4,039)			
SUSTAINABILITY	& ENE	RGY MEASURES		LS			(81)			
SUPPORTING FACIN	LITIES						2,166			
UTILITIES				LS			(980)			
PAVEMENTS				LS			(285)			
SITE IMPROVEMEN	NTS			LS			(124)			
COMMUNICATIONS	SUPPO	RT		LS			(737)			
DEMOLITION				LS			(40)			
SUBTOTAL							6,286			
CONTINGENCY	(5.0%))					314			
TOTAL CONTRACT (COST						6,600			
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				376			
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	UBTOTAL)				251			
TOTAL REQUEST							7,228			
TOTAL REQUEST (1	ROUNDE	D)					7,300)			
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				(31,000			
10. Description of Proposed Construction: High bay simulator with foundation, floors, walls, and roof to match general appearance and character of existing facility. Include one 60' X 60' high-bay simulator room, restrooms, mechanical room, image generator room, office, and multi-purpose rooms to accommodate meeting, educational, and briefing functions. Work will include site preparation, seismic provisions, communications support, secure communications trench, classified and unclassified areas, plumbing, electrical, HVAC and fire protection systems, landscaping, storm drainage and all supporting utilities. Due to substandard soil conditions, over-excavation and special foundations will be required. An existing generator enclosure is to be demolished as part of the project, as well as the relocation of two electrical transformers. 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 4-101-01. Air Conditioning: 300 Tons										
PROJECT: Cons REQUIREMENT: simulator to t forthcoming ai	11. Requirement: 902 SM Adequate: 0 SM Substandard: 0 SM <u>PROJECT:</u> Construct CRH Full Motion Simulator Facility (New Mission). <u>REQUIREMENT:</u> Adequate space is required to install and operate an HH-60W flight simulator to train Combat Rescue Helicopter (CRH) personnel as part of the forthcoming aircraft replacement. The facility will house the HH-60W simulator									

- DD FORM 1391, DEC 99 Previous editions are obsolete.

FEBRUARY 2016

HH-60 Simulator Facility: 902 SM = 9,709 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.

<u>IMPACT IF NOT PROVIDED</u>: There are no workarounds in lieu of constructing a new facility. Without this project, students will not be provided the critical training required to fly the new HH-60W aircraft. New flight simulators will be delivered without a facility to house them, and these costly and sensitive devices will have to be stored at government expense.

ADDITIONAL: This project meets the 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. A certificate of exception is being prepared. Base Civil Engineer: (505) 846-7911.

new simulator and HH-60M training requirements. The current HH-60G flight simulator facility must continue to operate until the HH-60W completely replaces legacy aircraft. As existing HH-60G aircraft and simulators are phased out, additional HH-60W simulators will replace them.

that provides realistic training and accurately portrays the Mission Design Series

CURRENT SITUATION: There are currently no facilities at Kirtland AFB to house the

(MDS) to train and increase readiness of CRH flight crews.

3. INSTALLATION, SITE AND LOCATION

1. COMPONENT

AIR FORCE

4. PROJECT TITLE

. COMPONENT	F	Y 2017 MILITA (CO	RY CONSTR mputer ge	UCTION PRO	OJECT D	ATA	2	. DATE
3 TNSTALLATI		TATTON		4 DROTE	<u></u>	F		
XIRTLAND AIR I	FORCE BAS	E		COMBAT R	ESCUE H R	IELICOPTER (CRH)
NEW MEXICO								
5. PROGRAM EL	EMENT	6. CATEGORY C	ODE 7. P	ROJECT NUI	MBER 8	. PROJECT C	OST	(\$000)
27229		171-212	244	5/MHMV103	108	7	,300	
L2. SUPPLEMEN	TAL DATA:							
a. Estimate	d Design	Data:						
(1) Projec	ct to be a	accomplished b	y design-	build pro	cedures	5		
(2) Basis:	:							
(a) St (b) Wh	andard or ere Desig	Definitive Definitive Definitive Definitive Definitive Definition	esign - cently Us	ed -				NO
(3) All Ot	ther Desig	gn Costs						292
(4) Constr	ruction Co	ontract Award					17	FEB
(5) Constr	ruction St	art					17	MAR
(6) Constr	ruction Co	ompletion					18	SEP
(7) Energy	v Study/L:	ife-Cvcle anal	vsis was/	will be p	erforme	ed		YES
EQUIPMENT	NOMENCLA	TURE	PROCURING	APPRC	OR REQ	JESTED		(\$000
SIMULATOR	R DEVICE (WST 1)	360	0	1	6		25,000
FURNITURE	, FIXTURE	S, AND EQUIP	340	0	1	8		2,000
SIMULATOR	DEVICE (AVDTT 1)	360	0	1	6		3,000
SIMULATOR	DEVICE (AVDTT 2)	301	0	1	6		1,000

1. COMPONENT	F	Y 2017 I	MILITA	RY CON	STRUC	TION P	ROGRA	M	2. DAT	E (YYYMMDD) 20150911	
3. INSTALLATION AND LOCATION				4. COM	MAND				5 ARE		
WRIGHT-PATTERSON AIR FORCE B	BASE								COST INDEX		
ОНЮ	-	AIR FORCE MATERIEL COMMAND								0.94	
6. PERSONNEL	(1) F	PERMAN	IENT	(2)	STUDE	ITS	(3) \$	SUPPOR	TED		
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL	
a. AS OF 30-Sep-15	1697	1849	9651	0	0	0	1162	2246	2643	19,248	
b. END FY 2021	1684	1823	9156	0	0	0	1121	2219	2608	18,611	
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE	8,179										
b. INVENTORY TOTAL AS OF	30-Sep-	15								5,350,823	
c. AUTHORIZATION NOT YET IN IN	IVENTO	RY								29,500	
d. AUTHORIZATION REQUESTED	IN THIS	PROGR	AM (FY	2017)						12,600	
e. PLANNED IN NEXT FOUR PROG	RAM YE	EARS (F	Y 2018-2	2021)						7,300	
f. REMAINING DEFICIENCY										456,350	
g. GRAND TOTAL										5,856,573	
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY	2017)								
	CAT	EGORY						CC	OST	DESIGN STATUS	
CODE PRO	JECT TI	<u>TLE</u>				SCO	OPE	<u>(</u> \$0	<u>00)</u>	START COMPLETE	
730-839 Relocate Entry Control Poin	nt 26A						LS	12,	600	Design Build	
,										5	
							TOTAL	12.	600		
9. FUTURE PROJECTS IN NEXT FO	UR PRO	GRAM	(EARS (FY 2018	-FY 202	1)		,			
130-142 RELOCATE FIRE CRASH	RESCU	F STATI	ON	0.0	0_	1.679	SM	7.3	300		
			••••			.,	C.M.	.,.			
							TOTAL	7 2	200		
							IUIAL	7,5	500		
	NA)						TOTAL	250	000.0		
Ram UNFUNDED REQUIREMENT (\$	IVI)						TUTAL	350,	000.0		
10. MISSION OR MAJOR FUNCTION	15					in the end		بمتاط مامم			
supports a war-winning canability prov	ides one	rational s	support a	ig, whose	ains 128	tenant c	erate a w	ions An	ong the	se wing that prepares and se are: Headquarters Air	
Force Materiel Command. Air Force Lif	e Cvcle I	Manager	nent Cer	nter. Air F	Force Re	search L	aborator	v. Air Fo	rce Institu	ute of Technology.	
Development & Fielding Systems Grou	p, 445th	Air Lift V	Ving, Na	tional Mu	seum of	the Air F	orce, an	d Nation	al Air and	d Space Intelligence	
Center.	•		•								
11. OUTSTANDING POLLUTION AN	D SAFE	TY DEFI	CIENCIE	ES (FY 2)	017 - FY	2021)			_		
a. Air Pollution								(0		
									_		
b. Water Pollution								(Ú.		
c. Occupational Safety and Heal	th							(C		
d. Other Environmental								(C		
							TOTAL		0		
DD Form 1390, JUL 1999		PR		DITION IS		TE.					

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE		
AIR FORCE		(computer generated)							
3. INSTALLATION, SITE AND LOCATION 4. PROJECT						3	•		
WRIGHT PATTERSO	N AIR	FORCE BASE		RELOCATE ENTRY CONTROL FACILITY 26A					
WRIGHT-PATT SIT OHIO	E # 1								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
72976		730-839	3530,	ZHTV1	23205		12,600		
	9. COST ESTIMATES								
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)		
RELOCATE ENTRY (CONTRO	L FACILY (ECF) 26A					2,431		
TRAFFIC CK HOU	SE 26A	, CANOPY, 4 KIOSK 73	0-839	LS			(768)		
FINAL DENIAL B	ARRIER	(FDB) 872-247		LS			(722)		
COMMERCIAL VEH	ICLE I	NSPECTION FAC 730-83	7	LS			(678)		
REINFORCE CHAI	N LINK	FENCE(PFPM) 872-245	i	LS			(202)		
SUSTAINABLE AN	D ENER	GY MEASURES		LS			(60)		
SUPPORTING FACIN	LITIES						8,570		
UTILITIES				LS			(1,250)		
PAVEMENTS				LS			(6,280)		
SITE IMPROVEME	NTS			LS			(100)		
ROAD LIGHTING				LS			(650)		
EMERGENCY GENE	RATOR	(30KW)		LS			(33)		
COMMUNICATIONS SUPPORT				LS			(62)		
DEMOLITION (RO.	AD & F	/34000, F/11465)		SM	1,159	169	(196)		
SUBTOTAL							11,000		
CONTINGENCY	(5.0%))					550		
TOTAL CONTRACT	COST						11,550		
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				658		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)				440		
TOTAL REQUEST							12,649		
TOTAL REQUEST (1	ROUNDE	D)					12,600)		
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				(330		
10. Descripti commercial veh	on of	Proposed Construction facilit	ction: Co	nstru ructi	on will co	gate house, ponsist of as	canopy, and sphalt		
concrete base,	aggr	egate base, asphal	lt concret	e int	ermediate	course, asp	onalt ole fenge		
installation.	traff	ic signs and signs	s supports	. see	ding and m	ulching, ar	nd all		
require lighti	.ng.	Work to include dr	ainage an	d all	utilities	s and utilit	ies		
relocation. F	rovid	le pavement, and cu	urbs. Rec	onfig	ure fencir	ng and provi	de gate.		
Project will p	provid	e Final Denial Bar	rriers (FD	B) an	d traffic	control lig	hts.		
Provide a cano	opy an	d bulletproof guar	d kiosks.	Pro	vide exter	rior lightin	ng and site		
utilities (wat	er, s	ewer, power). Den	nolish tra	ffic	check hous	se F/34000 a	ind		
F/11465. Faci	litie	s will be designed	l as perma	nent.	constructi	ion in accor	dance with		
the DoD Unifie	d Fac	ilities Criteria ((UFC) 1-20	0-01,	General H	Building Req	quirements		
and UFC 1-200-	02, н	igh Performance ar	nd Sustain	able	Building H	Requirements	. This		
project will o	omply	with DoD antiter	rorism/for	ce pr	otection 1	requirements	s per UFC 4-		
010-01.									

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2					2. DATE		
AIR FORCE		(c	omputer ger	nerated)				
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE	:			
WRIGHT PATTERSO	N AIR	FORCE BASE		RELOCATE ENTRY C	ONTROL FACILIT	Y 26A		
WRIGHT-PATT SIT	E # 1							
онто								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	OST (\$000)		
72976		730-839	3530	/ZHTV123205	12	,600		
Air Conditioning: 1 Tons								
11. Requirement	it: 1	LS Adequate: I	LS Subs	tandard: LS				
PROJECT: Rela	cate	Entry Control Faci	ility 26A.	(Current Missi	.on)			
REQUIREMENT:	Force	protection and se	ecured ent	ry control for	Air Force			
installations.	Thi	s Entry Control Po	oint is re	quire to secure	the install	ation from		
unauthorized a	ccess	and intercept con	ntraband (weapons, explos	ives, drugs,			
classified mat	erial	, etc.) while maxi	imizing ve	hicular traffic	flow. Comp	liance		
with the requi	remen	ts of the Unified	Facilitie	s Criteria (UFC	!) 4-022-01 "	Security		
Engineering: F	'acili	ties/Access Contro	ol Points"	and the Surfac	e Developmen	t and		
Distribution C	omman	d Transportation H	Ingineerin	g Agency (SDDCT	EA) Pamphlet	55-155		
"Traffic Engin	leerin	g for Better Entry	CONTROL"	is required.	_			
CURRENT SITUAT	ION:	Entry Control Fac	cility 26A	provides acces	s from State	Route		
(SR) 235 to the	le nor	thwest side of WPA	AFB. Key	Missions in thi Wing military t	s area inclu	le the		
the munitions	gtora	de area FCF 261	does not	wing military t meet the requir	ements in Un	ified		
Facilities Cri	teria	(UFC) 4-022-01 "S	Geourity E	ngineering: Fac	ilities/Acce	ss Control		
Points" and th	e Sur	face Development a	and Distri	bution Command	Transportatio	on		
Engineering Ag	ency	(SDDCTEA) Pamphlet	: 55-15 "T	raffic Engineer	ing for Bett	er Entry		
Control". Thi	.s gat	e and perimeter fe	ence is 20	0 ft from Dougl	as Road th	e sole		
road connectin	g the	West Ramp with th	ne remaind	er of Area A so	outh of the r	unway.		
This short dis	tance	prevents ECF 26A	from bein	g upgraded in i	ts present l	ocation to		
Anti-Terrorism	ı stan	dards. The short a	access roa	d does not prov	ide sufficie	nt queuing		
for traffic en	terin	g the base, nor wi	ill it pro	vide adequate d	listance for	activation		
of final denia	l bar	riers. Douglas Ro	oad cannot	be relocated d	leeper into ti	he base to		
permit suffici	.ent q	ueuing distance as	s it would	impinge on air	field operat	ions and		
Clearance requ	the e	nts. Inspection of	or large c	ommercial/cargo	trucks is p	rovided at		
is cordoned of	f in	a 2 000 foot radi	s cargo, c	the truck inspe	vicinity of v	Sale IOA		
forces the eva	cuati	on of multiple con	municatio	ns support faci	lities housi	ng the		
base LAN and t	eleph	one operations and	the comm	unications serv	rice call cen	ter.		
Antennae at th	is lo	cation also suppor	t the Nat	ional Airborne	Operations C	enter		
(NAOC) aircraf	t, wh	ich are operationa	al when th	e aircraft is c	n base. The	e		
evacuation rad	lius w	ould close State H	Route 444,	a four lane di	vided highwa	Y		
connecting Wri	.ght-P	atterson AFB and t	he adjace	nt city of Fair	born with Day	yton and		
its northern s	uburb	s.						
IMPACT IF NOT	PROVI	DED: Failure to p	celocate G	ate 26A will re	sult in cont	inued		
undue risk to	missi	ons, aircraft, and	l personne	l assigned to t	he West Ramp	. The		
Lack of final	denia	L barrier will ind	rease the	risk of insurg	ents running	the gate		
and disrupting	airc	traffic onto CD 22	ice operat	ions. Lack of	surricient q	ueuing		
relocate the t	ruck	inspection area wi	ill lead +	o continued dia	ruption of +1	he hase		
communications support complex, affecting service call response LAN and telephone								
operations and management. In the event of a detonation, the blast and debris will								
potentially da	mage	the communications	support	facilities; lea	ding to long	term		
disruption of	base	communications as	facilitie	s are repaired,	communicati	on lines		
DD FORM 1391,	DEC 9	9 Previou	s edition	s are obsolete.	P	age No.		

1. COMPONENT		FY 2017 MILIT	ГА	2. DATE			
AIR FORCE		(computer generated)					
3. INSTALLATION, SITE AND LOCATION 4.				4. PROJECT TITLE			
WRIGHT PATTERSON AIR FORCE BASE				RELOCATE ENTRY CONTROL FACILITY 26A			
WRIGHT-PATT SIT	E # 1						
ОНІО							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER 8. PROJECT			OST (\$000)	
72976		730-839	3530	/ZHTV123205	12	2,600	

and switches are restored and service call activities operate from temporary locations. A detonation could damage the antennae supporting NAOC operations, resulting in loss of communications to the NAOC aircraft; rendering it useless until communications are re-established. An incident will also close Route 444, resulting in Wright-Patterson Area A and Fairborn being cut-off from Dayton and its eastern and northern suburbs, forcing lengthy detours around the northern perimeter of base.

ADDITIONAL: An economic analysis is not required and has not been prepared for this project because it corrects installation safety and security problems and violations (AFI 65-501, 1.2.2.5, 1.2.2.4). This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." Base Civil Engineer: (937) 257-6214.

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 AIR FORCE	1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated)							
3. INSTALLATI	ON AND I	OCATION		4. PROJE	CT TII	LE	L	
WRIGHT PATTER WRIGHT-PATT S OHIO	SON AIR ITE # 1	FORCE BASE		RELOCATE	ENTRY	CONTROL FAC	LIT	Y 26A
5. PROGRAM EL	EMENT	6. CATEGORY COD	E 7. P	ROJECT NUN	MBER	8. PROJECT CC	ST	(\$000)
72976		730-839 3530/ZHTV123205 12,600						
 12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Project to be accomplished by design-build procedures 								
(2) Basis (a) St (b) Wi	 (2) Basis: (a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used - 							
(3) All O	ther Des	ign Costs						630
(4) Const	ruction	Contract Award					17	FEB
(5) Const	ruction	Start					17	MAR
(6) Const	(6) Construction Completion						18	AUG
(7) Energ	y Study/	Life-Cycle analys	is was/	will be p	erfor	ned		YES
b. Equipmer	t assoc:	iated with this pr	oject p OCURING	provided f	FISCA	ther appropri L YEAR PRIATED	atio	ons: COST
EQUIPMENT	NOMENC:	LATURE			OR RE	QUESTED		(\$000)
EQUIFMEN.	I FROM O		500	•	2			

1. COMPONENT	F									
AIR FORCE										20150911
3. INSTALLATION AND LOCATION				4. COM	MAND				5. ARE	A CONSTRUCTION
ALTUS AIR FORCE BASE				AIR EDI	JCATIO	N AND T	RAININ	G	COS	T INDEX
OKLAHOMA				COMMA	ND					1
6. PERSONNEL	(1) F	PERMAN	IENT	(2)	STUDEN	ITS	(3) \$	SUPPOR	TED	τοται
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL
a. AS OF 30-Sep-15	263	1090	1186	277	160	18	0	0	546	3,540
b. END FY 2021	297	1128	1321	1149	604	79	0	0	596	5,174
7. INVENTORY DATA (\$000)										
a. TOTAL ACREAGE										
b. INVENTORY TOTAL AS OF	30-Sep-	15								930,057
c. AUTHORIZATION NOT YET IN IN	VENTO	RY								51,150
d. AUTHORIZATION REQUESTED	IN THIS	PROGR	AM (FY	2017)						11,600
e. PLANNED IN NEXT FOUR PROG	RAM YE	EARS (F	Y 2018-2	2021)						16,500
f. REMAINING DEFICIENCY										16,800
g. GRAND TOTAL										1,026,107
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY	2017)							
	CAT	EGORY						CC	OST	DESIGN STATUS
CODE PRO	JECT TI	TLE				SCO	OPE	<u>(\$0</u>	<u>000)</u>	START COMPLETE
171-625 KC-46A FTU/FTC Simulate	or Facility	Ph 2				2,063	SM	11,	600	Design Build
										0
9. FUTURE PROJECTS IN NEXT FO 171-625 KC-46A FTU Fuselage Tra 171-625 KC-46A FTU Flight Trng C	UR PRO iner tr - Ph 3	GRAM	YEARS (′FY 2018	-FY 2021	() 679 2,063	TOTAL SM SM	. 11, 3,5 13,	600 500 000	
							TOTAL	16,	500	
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	9	.6	
 10. MISSION OR MAJOR FUNCTIONS The 97th Air Mobility Wing (AMW) at Altus AFB is responsible for formal training for C-17, KC-135, and KC-46 aircraft for active duty, Guard, and Reserve aircrew, while maintaining worldwide capability to augment Global Reach contingency support. The 97 AMW has complete responsibility for all refueling of military aircraft in its assigned sector of the continental United States. In addition the 97 AMW is an integral part of two Strategic Homeland Defense Missions, Coastal Defense and Maritime Interdiction. 										
a. Air Pollution	DOALE		OILITOI			2021)		(C	
b. Water Pollution								(0	
c. Occupational Safety and Heal	th							(0	
d. Other Environmental								(0	
							TOTAL		0	

DD Form 1390, JUL 1999

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE	
AIR FORCE		(computer generated)						
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	5		
ALTUS AIR FORCE	BASE			KC-46	A FTU FTC S	IMULATOR FAC	ILITY PHASE 2	
ALTUS AIR FORCE OKLAHOMA	BASE	SITE # 1						
5. PROGRAM ELEM	MENT 6. CATEGORY CODE 7. RPSUID/PRO				PROJECT NUMBER 8. PROJECT COST			
41221		171-625	1361/	AGGN1	73001		11,600	
		9. C	OST ESTIMA	TES				
		ттем		тт/м	OUANTTTY	UNIT	COST	
		11111		0/11	QUANIIII		(\$000)	
PRIMARY FACILIT	IES						8,348	
FLIGHT SIMULAT	OR TRA	INING FAC PHASE 2		SM	2,063	3,969	(8,188)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(160)	
SUPPORTING FACE	LITIES					ĺ	1,783	
UTILITIES				LS			(493)	
PAVEMENTS				LS			(555)	
SITE IMPROVEME	NTS			LS			(429)	
SITE COMMUNICA	TIONS	SUPPORT		LS			(140)	
SPECIAL FOUNDA	TIONS			LS			(166)	
SUBTOTAL							10,131	
CONTINGENCY	(5.0%))					507	
TOTAL CONTRACT	COST						10,637	
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				606	
DESIGN/BUILD -	DESIGN	COST (4.0% OF S	UBTOTAL)				405	
TOTAL REQUEST							11,649	
TOTAL REQUEST (1	ROUNDE	D)					11,600)	
EQUIPMENT FROM	OTHER	APPROPRIATIONS (NON-	ADD)				(51,300	
10. Descripti	on of	Proposed Construc	ction: Add	ds to	and alter	s existing	Flight	
Training Cente	er (FI	C) to house high h	bay, Weapon	ns Sy	stem Trair	ners (WST),	Boom	
Operator Train	ners (BOT), and Part Tas	sk Trainer:	s (PT	T), using	economical	design and	
construction n	nethod	s to accomplish th	ne classif:	ied t	raining mi	ssion of the	he facility.	
techniques sha	parki 11 be	used where cost e	ffective.	Work	includes	all utiliti	ies.	
mechanical sys	stems,	communications su	apport, and	d fir	e detectio	on/suppressi	ion systems	
to provide a c	comple	te and useable fac	cility. Fa	cilit	ies will b	e designed	as	
permanent cons	struct	ion in accordance	with the 1	DoD U	nified Fac	ilities Cri	teria (UFC)	
1-200-01, Gene	eral B	uilding Requiremen	nts and UF	C 1-2	00-02, Hig	h Performan	ice and	
Sustainable Bu	iildin force	g Requirements.	This proje rements pe	Ct W1 r UFC	.11 COMPLY	with DoD		
Air Conditioni	nge	90 Tong	ements pe	L OFC	. 4-010-01.			
11. Requirement	nt: 69	05 SM Adequates	: 2779 SM	Su	bstandard:	0 SM		
PROJECT: KC-4	6A FT	U FTC Simulator Fa	acility Ph	ase 2	(New Miss	sion)		
REQUIREMENT:	The A	F has designated A	Altus AFB,	OK a	s the Form	al Training	y Unit (FTU)	
for the KC-467	tank	er aircraft. Facil	Lity will a	suppo	ort enterpr	ise trainin	ng and	
beddown of a F	C-46A	training squadron	n comprise	d of	six to eig	tht aircraft	: scheduled	
for delivery h	peginn	ing in FY16. An ac	lequately a	sized	l, configur	ed and cond	litioned	
Flight Trainir	ng Cen	ter (FTC) is requi	ired to su	pport	flight tr	aining, mis	sion	
planning, flig	int ob	erations in a secu	are enviro	ument	, aircrew	mission bri	lers and	
DD FORM 1391,	DEC 9	9 Previou	s editions	s are	obsolete.		Page No.	

1. COMPONENT		FY 2017 MILIT	ГА	2. DATE				
AIR FORCE		(computer generated)						
3. INSTALLATION	, SITE AND LOCATION 4. PROJECT TITLE							
ALTUS AIR FORCE BASE KC-46A FTU FTC SIMULATOR FACIL					ITY PHASE 2			
ALTUS AIR FORCE BASE SITE # 1								
OKLAHOMA								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER 8. PROJECT		OST (\$000)		
41221	171-625 1361/AGGN173001 11				,600			

debriefs, and communications.

<u>CURRENT SITUATION:</u> Existing facilities are not configured to support the 50 ft x 50 ft x 50 ft WST bay space requirements and security needs. Additionally, existing C-17 WST facility does not meet current ATFP set-back requirements. Estimated costs to harden portions of the existing facility to meet ATFP requirements and to increase the height of the roof so the WST would fit inside the facility would increase the project cost by an additional \$6M. This 2,063 SM flight training center add/alter project is the second of a three phase construction of the 6,905 SM FTC.

IMPACT IF NOT PROVIDED: Without this project being executed in FY 2017, the Air Force will be unable to provide timely aircrew training necessary to continue training and operation of the KC-46A aircraft. The lack of this facility addition and its equipment greatly increases training costs by requiring the use of actual aircraft to provide this training, placing KC-46A aircraft at higher risk of damage due to training accidents. From a student training perspective a 6-month slip to the right in building occupancy would result in a loss of student production at the FTU of 36 pilots and 20 boom operators from initial qualification courses. In addition, during this 6-month slip there would also be a loss of student production of 12 pilots from the aircraft commander upgrade course and 8 pilots from the instructor pilot upgrades and a loss of 12 boom operators from the instructor boom operator production. Without the simulators, this alternative training will result in higher fuel, maintenance, and operational costs to the Air Force.

ADDITIONAL: The criteria/scope for this project is contained in the KC-46A Formal Training Unit Beddown Program Plan 14-01. A preliminary analysis of reasonable options was accomplished comparing alternatives of status quo, renovation, addition/alteration, and new construction. It indicates the most cost effective action for immediate bed down that will meet operational requirements is an addition/alteration of an existing facility. A certificate of exception is being prepared. Base Civil Engineer, (580) 481-6530. KC-46A FTU FTC Simulator Facility Phase 2: 2,063 SM = 22,206 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	COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE							
AIR FORCE		(con	nputer ger	erated)				
3. INSTALLATIO	ON AND L	OCATION		4. PROJECT T	ITLE			
ALTUS AIR FOR ALTUS AIR FOR OKLAHOMA	CE BASE CE BASE	SITE # 1		KC-46A FTU F PHASE 2	TC SIMULATOR F	ACILITY		
5. PROGRAM EL	EMENT	6. CATEGORY CO	DDE 7. PF	OJECT NUMBER	8. PROJECT CO)ST (\$000)		
41221		171-625	171-625 1361/AGGN173001 1					
12. SUPPLEMEN	TAL DAT	A:						
a. Estimate	d Design	Data:						
(1) Projec	ct to be	accomplished by	y design-1	ouild procedu	res			
(2) Basis (a) St (b) Wh	andard (ere Des:	or Definitive De ign Was Most Rec	sign - ently Use	d -	Developed for	YES KC-46A		
(3) All Of	ther Des	ign Costs				464		
(4) Constr	ruction	Contract Award				17 FEB		
(5) Consti	ruction	Start				17 MAR		
(6) Constr		18 SEP						
(7) Energy	y Study/	Life-Cycle analy	ysis was/	will be perfo	rmed	YES		
b. Equipmen	t associ	ated with this	project p PROCURING	rovided from FIS(APPRC APPR OR F	other appropri CAL YEAR OPRIATED EOUESTED	COST (\$000)		
BOT (2)		-	360)	2016	20,000		
FURNISHIN	IGS AND	EQUIPMENT	3400)	2018	100		
WST (2)			360)	2016	30,000		
COMMUNICA	TIONS E	QUIPMENT	308)	2017	1,200		

1. COMPONENT	E/	/ 2017 N	ΛΗ ΙΤΔΕ		STRUC		ROGR	м	2. DAT	E (YYYMMDD)
AIR FORCE	•	2017								20150911
3. INSTALLATION AND LOCATION				4. CON	IMAND				5. ARE	A CONSTRUCTION
TINKER AIR FORCE BASE				AIR FO	RCE MA	TERIEL	СОММА	ND	cos	
OKLAHOMA						-				0.97
6. PERSONNEL	(1) F	PERMAN	IENT	(2)	STUDEN	ITS	(3) 5	SUPPOR	TED	TOTAL
- AC OF 20 Can 45	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	20.000
a. AS OF 30-Sep-15	255	814	12929				1079	4003	982	20,062
D. END FY 2021	254	810	12793				884	3437	870	19,040
2 TOTAL ACREAGE	5 41740	C: Mair	Base /	1 8694 C		ot Vet in	Invento	nv: 1564	C	
	30-Sen-	.15	1 Dase	r,000AO,	Addition		mvento	iy. 100A	0	3 080 136
c. AUTHORIZATION NOT YET IN I		DRY								182 000
d. AUTHORIZATION REQUESTED			RAM (FY	(2017)						17.000
e. PLANNED IN NEXT FOUR PRO	GRAM Y	EARS (=Y 2018	-2021)						273.400
f. REMAINING DEFICIENCY		(458.845
g. GRAND TOTAL										4.011.381
8. PROJECTS REQUESTED IN THIS	PROGR	RAM (FY	2017)							-,,
	САТ	EGORY	,					со	ST	DESIGN STATUS
CODE PRO	JECT TI	TLE				SCO	<u>DPE</u>	<u>(\$0</u>	<u>00)</u>	START COMPLETE
141-762 KC-46A DEPOT SYSTEM	INTEGR		LABORA	TORY		4,613	SM	17,	000	Design Build
										-
							TOTAL	17,	000	
9. FUTURE PROJECTS IN NEXT FC	OUR PRO	OGRAM	YEARS	(FY 201	8-FY 202	1)				
171-212 E-3G MISSION AND FLIG	HT SIMU	JLATOR	TRAINI	NG FAC	I	4,752	SM	26,	000	
211-116 KC-46A DEPOT MAINTEN	IANCE C	Complex,	Phase	2		30,076	SM	139	,000	
211-159 KC-46A DEPOT MAINTEN	IANCE C	Complex				17,445	SM	104	,000	
214-467 Refueler Vehicle Maintena	nce Sho	р				873	SM	4,4	00	
										-
				FUTU	JRE PRO	JECTS	TOTAL	273	,400	
	:M1)						TOTAL	14	1 1	
R&M ONFONDED REQUIREMENT (TUTAL	14	1.1	
Tinker's largest organization is the Ok	NO Ilahoma	City Air I	onistics	Comple	v It nrow	vides der	oot main	tenance	on the C	KC-135 B-1B B-52 and
E-3 aircraft, expanded phase mainten	ance on	the Navy	E-6 air	craft, and	d mainter	ance, re	pair and	l overhau	l of F10 ⁻	1, F107, F108, F110, F117
F118 and TF33 engines for the Air Fo	rce, Air F	orce Re	serve, A	ir Nation	al Guard	, Navy a	nd foreig	n militar	/ sales.	
11. OUTSTANDING POLI UTION AN		TY DEF		ES (EY)	2017 - F	(2021)				
a. Air Pollution				(··· ·	/		()	
b. Water Pollution								()	
c. Occupational Safety and Hea	lth							()	
d. Other Environmental								()	
							TOTAL	()	- -
DD Form 1390, JUL 1999		PRE	EVIOUS E	DITION IS	S OBSOLE	TE.				

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE		(c	omputer gen	erate	d)				
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	5			
TINKER AIR FORC	E BASE	1		KC-46	A DEPOT SYS	TEM INTEGRAT	ION LABORATORY		
TINKER AFB SITE	# 1								
OKLAHOMA			 				(*****		
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/1	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
41221		141-762	3342/	WWYK1	73003		17,000		
	9. COST ESTIMATES								
		ITEM		U/M	QUANTITY	UNIT	COST		
							(0000)		
PRIMARY FACILITI	ES						13,172		
DEPOT SYSTEM IN	NTEGRA	TION LABORATORY		SM	4,613	2,799	(12,914)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(258)		
SUPPORTING FACII	LITIES						1,678		
UTILITIES				LS			(610)		
SITE IMPROVEMEN	NTS			LS			(125)		
PAVEMENTS				LS	İ		(100)		
COMMUNICATIONS				LS			(88)		
DRILLED PIERS				LS			(561)		
CHILLED WATER I	DISTRI	BUTION		LS			(149)		
CONNECTION CHAP	RGE TO	UTILITY PROVIDER		LS			(45)		
SUBTOTAL							14,850		
CONTINGENCY	(5.0%))					742		
TOTAL CONTRACT C	COST						15,592		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				889		
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	SUBTOTAL)				594		
TOTAL REQUEST							17,075		
TOTAL REQUEST (F	ROUNDE	D)					17,000)		
EQUIPMENT FROM C	THER	APPROPRIATIONS (NON-	ADD)				(102,885		
10. Descripti	on of	Proposed Construc	ction: Con	nstru	ct a syste	em integrat:	ion		
laboratory uti	lizin	g economical desig	yn and cons	struc	tion metho	ods compatil	ble with		
applicable DoD	, Air	Force and the bas	se design : n shall bo	stand	ards. In	addition;	local Ingludog		
pavements, sit	e imp	rovements, communi	ications s	roqqu	t, compute	er rooms wit	th raised		
floor, adminis	trati	on and support are	eas, all no	ecess	ary utilit	ies and HV	AC.		
Facility will	be de	signed as a perman	nent constr	ructi	on in acco	ordance with	h DoD		
Unified Facili	ties	Criteria (UFC) 1-2	200-01, Gen	neral	Building	Requirement	ts and UFC		
1-200-02, High	. Perf	ormance and Sustai	inable Buil	lding	Requireme	ent. Comply	y with DoD		
Nin Conditioni		200 mong	Juriariigs j	per u	FC 4-010-0) 1 •			
11 Requiremen	119: +• 46	13 SM Maguates	• 0 SM	Subet	andard. 0	SM			
	63 Do	TO SM Adequate.	tion Taba			(iggion)			
PROJECT: KC-4	A De	pot system integra	acton Labo	rator	y. (New M	required for	or the 76		
SMXG to accomp	An ao lish	the systems and so	oftware end	ed Ia Jinee	cility is ring missi	on for the	KC-46A		
software devel	opmen	t and integration.	. The Syst	tem I	ntegration	Laborator	y will focus		
on software su	pport	associated with H	C-46A mis	sion	equipment	integration	n with		
flight deck eq	uipme	nt as well as perf	Eorm dynam:	ic re	al time fl	light scena	rio testing.		
The facility	will	house software dev	velopment,	main	tenance ar	nd laborato	ry testing		
DD FORM 1391,	DEC 9	9 Previou	us editions	s are	obsolete.		Page No.		

1. COMPONENT	FY 2017 MILIT	TA 2. DATE					
AIR FORCE	(c	(computer generated)					
3. INSTALLATION,	, SITE AND LOCATION	4. PROJECT TITLE	4. PROJECT TITLE				
TINKER AIR FORCE	E BASE	KC-46A DEPOT SYS	TEM INTEGRATION LABORATORY				
TINKER AFB SITE	# 1						
OKLAHOMA							
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)				
41221	141-762	3342/WWYK173003	17,000				

of refueling systems, electronic warfare, avionics systems, as well as integration of military defensive systems in support of the KC-46A mission. This new facility is an integral part of logistical plans to support the KC-46A and will enable the requisite throughput, capability & efficiencies resulting in reduced maintenance and licensing costs for hardware & software, reduced operating costs for software operations, and reduced development costs for future capabilities. The facility program includes lab space to house engineering development workstations and an integration and test environment with raised flooring, potential high bay areas, and special power and cooling requirements. The lab areas are comprised of several stand-alone benches and multiple integration labs with sufficient capacity for all KC-46A software sustainment and modernization. The facility requires a classified security system, wiring, and communication lines. The facility must also comply with DoD minimum force protection construction standards. All external doors need to be secured. All internal walls will be moveable.

CURRENT SITUATION: Currently, operational flight software is developed/maintained by SMXG in buildings 1083 (B-2) and 3220 (B-52, B-1, E-3). Bldg 1083 has neither the capacity nor the security environment to enable KC-46 software support to be accomplished. Bldg 3220 does not have capacity due to current staffing levels coupled with ongoing growth with an additional B-52 SIL, B-52 CONECT, and E-3 Mission Computing workloads. Existing space within facility 9001 is not configured to support this workload and must be constructed from the ground up.

IMPACT IF NOT PROVIDED: Title 10 USC 2464 requires organic capability exists no later than four years after achieving Initial Operational Capability. The KC-46A Product Support Manager (PSM) has targeted Initial Operational Capability (IOC) as a "stretch" goal to establish organic capability to limit or eliminate the costs associated with Interim Contractor Support (ICS). In order to meet Title 10 requirements, it is necessary to construct the software integration support facility in FY17. Failure to do so violates Title 10 and increases program ICS costs.

ADDITIONAL: This project meets the criteria/scope specified in the Air Force Manual 32-1084, "Facility Requirements". A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs. therefore, a complete economic analysis was not performed. A certificate of exception has been prepared. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in Block 9 under Supporting Facilities as, "Connection Charge to Utility Provider". The Base Civil Engineer: 405-734-3451. KC-46A Depot System Integration Laboratory: 4,613SM = 49,650SF. JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.
	RCE BASE			KC-46A DE	POT SYSTEM	INTEGRAT	ION
INKER AFB SI	ITE # 1			LABORATOR	Y		
KLAHOMA							
. PROGRAM EI	LEMENT	6. CATEGORY C	ODE 7. P	ROJECT NUM	BER 8. PROJ	JECT COS	т (\$000)
41221		141-762	334	2/WWYK173	003	17,0	00
2. SUPPLEME	NTAL DATA	.:					
a. Estimate	ed Design	Data:					
(1) Proje	ct to be	accomplished b	y design-	build prod	edures		
(2) Basis	:						
(a) Si (b) W]	tandard c here Desi	or Definitive De on Was Most Red	esign - centlv Us	ed -			NO
(3) All C	ther Des	ign Costs	-				850
(4) Const	ruction (Contract Award				1	7 FEB
(5) Const	ruction	Start				1	7 APR
(6) Const	ruction (Completion				1	8 DEC
(7) Energ	v Study/	Life-Cycle anal	vsis was/	will be pe	erformed		YES
			PROCIERTNO	APPRO	FISCAL IEAR		COST
EQUIPMEN	T NOMENCI	ATURE	PROCURING	APPRC	APPROPRIATED		COST (\$000
EQUIPMEN' SYSTEMS	T NOMENCI FURNITURE	ATURE	PROCURING	APPRC	APPROPRIATED OR REQUESTED 2018		COST (\$000 2,184
EQUIPMEN SYSTEMS COMMUNIC	T NOMENCI FURNITURE ATIONS	ATURE	PROCURING 340 340	B APPRC : 0 0	APPROPRIATED DR REQUESTED 2018 2018		COST (\$000 2,184 437
EQUIPMEN SYSTEMS COMMUNIC MATERIAL	T NOMENCI FURNITURE ATIONS /EQUIPMEN	ATURE : IT	PROCURING 340 340 340	3 APPRC 2 0 0 0	APPROPRIATED CR REQUESTED 2018 2018 2018 2018	,	COST (\$000 2,184 437 264
EQUIPMEN SYSTEMS COMMUNIC MATERIAL SIL BENC	T NOMENCI FURNITURE ATIONS /EQUIPMEN HES/TEST	ATURE : IT STANDS/SIMS	PROCURINO 340 340 340 301	3 APPRC /	APPROPRIATED 2018 2018 2018 2018 2018 2018		COST (\$000 2,184 437 264 60,000
EQUIPMEN SYSTEMS : COMMUNIC MATERIAL SIL BENC SIL PME/:	T NOMENCI FURNITURE ATIONS /EQUIPMEN HES/TEST LRUS	ATURE : IT STANDS/SIMS	PROCURING 340 340 340 301 301	9 APPRC /	APPROPRIATED 2018 2018 2018 2018 2018 2018 2018 2018		COST (\$000 2,184 437 264 60,000 25,000

1. COMPONENT	F	Y 2017	MILITAI	RY CON	ISTRUC	TION P	ROGRA	M	2. DATI	E (YYYMML 201509	DD) 11
3 INSTALLATION AND LOCATION											
IOINT BASE SAN ANTONIO - LACKI								<u>_</u>	5. ARE		UCTION
TEYAS			DAGE			N AND I	RAINING	3	000	0.84	
6 PERSONNEL	(1) F		IENT	(2)	STUDEN	ITS	(3) 9		TED	0.04	
	OFFICER	ENLISTED	CIVILIAN	OFFICER		CIVILIAN	OFFICER			Т	OTAL
a. AS OF 30-Sep-15	666	3292	3051	555	9776	10	1634	7557	5708		32.249
b. END FY 2021	666	3292	3054	555	9776	10	1672	7179	6630		32,834
7. INVENTORY DATA (\$000)						-		-			,
a. TOTAL ACREAGE	2,311										
b. INVENTORY TOTAL AS OF	30-Sep-	15									2,964,124
c. AUTHORIZATION NOT YET IN IN	IVENTO	RY									451,595
d. AUTHORIZATION REQUESTED	IN THIS	PROGR	AM (FY	2017)							67,300
e. PLANNED IN NEXT FOUR PROG	RAM YE	EARS (F	Y 2018-2	2021)							135,802
f. REMAINING DEFICIENCY				,							293,577
g. GRAND TOTAL											3,912,398
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY	2017)								
	CAT	EGORY						CC	ST	DESIG	N STATUS
CODE PRO	JECT TI	TLE				SCO	OPE	<u>(\$0</u>	<u>00)</u>	<u>START</u>	COMPLETE
721-311 BMT Recruit Dormitory 6						26,065	SM	67,	300	06/15	09/15
9. FUTURE PROJECTS IN NEXT FO	UR PRO	GRAM	(EARS ((FY 2018	-FY 2021)	TOTAL	67,	300		
171-621 BMT Classrooms/Dining Fa	acility 4					5,891	SM	22,	802		
721-311 BMT Recruit Dormitory 7						26,065	SM	73,	000		
149-962 Air Traffic Control Tower (K	Celly Field	d Annex)				586	SM	10,	000		
730-771 BMT Chapel for America's	Airmen					8,768	SM	30,	000		
							TOTAL	- 405			
							TOTAL	135	,802		
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	7	.4		
10. MISSION OR MAJOR FUNCTION	IS										
A training wing which includes Basic M Evasion Resistance Escape, Logistics, Language Institute English Language C missions include Air Force Security For	ilitary Tra Enlisted Center, Ir rces Cen	aining (B I Aircrew hter-Ame hter, Rec	MT) Sch , Service rican Air ruiting, C	ool, Secu es, Contra Forces / Cryptogra	urity Forc acting, Ve Academy phic mair	es, Com chicle Ma , and Do ntenance	ibat Conv aintenan D Militar e, Reserv	voy/Arms ce, Milita y Workin ve C-5 tra	:/ Control ry Trainir g Dog Tr aining, & a	l, Pararescu ng Instructor raining. Addi a major meo	e, Survival , Defense tional lical center.
11. OUTSTANDING POLLUTION AN	D SAFE	TY DEFI	CIENCI	ES (FY 2	017 - FY	2021)					
a. Air Pollution				- (- /		()		
b. Water Pollution								()		
c. Occupational Safety and Heal	th							()		
d. Other Environmental								(0		
							TOTAL	(0		

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT		FY 2017 MIL	ITARY CONSTRU	CTION	PROJECT DA	TA	2. DATE
AIR FORCE			(computer gen	erate	d)		
3. INSTALLATION	, SITI	E AND LOCATION		4. PR	OJECT TITL	E	
JOINT BASE SAN LACKLAND AIR FO TEXAS	ANTON: RCE BA	IO - LACKLAND ASE SITE # 1		BMT R	ECRUIT DORN	MITORY 6	
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PH	ROJECT	NUMBER	8. PROJECT (COST (\$000)
85976		721-311	2461/MI	PLS083	737R6	6	7,300
		9.	COST ESTIMA	TES		1	
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILIT	ES						47,267
RECRUIT DORMIT	ORY (1	248 PN - 721-311)		SM	19,637	1,774	(34,836)
MTI ADMINISTRA	TIVE S	SPACE (610-241)		SM	1,261	2,227	(2,808)
TRAINING/FORMA	TION C	OPEN SPACE (179-371)	SM	3,283	1,469	(4,823)
PENTHOUSE FOR 1	MECHAN	NICAL EQUIPMENT (72)	1-311)	SM	1,891	1,537	(2,906)
WEAPONS CLEANI	NG PAV	/ILION (145-921)		SM	465	2,202	(1,024)
SUSTAINABILITY	& ENE	RGY MEASURES		LS			(870)
SUPPORTING FACII	LITIES						13,462
SITE IMPROVEMEN	NTS PI	US EISA AND STORM	WATER	LS			(1,868)
EXERCISE/DRILL	PAD A	AND RUNNING TRACK (7	50-177)	LS			(3,162)
UTILITIES				LS		ĺ	(2,687)
PAVEMENTS				LS			(1,412)
SPECIAL DRILLE	D PIEF	R FOUNDATION		LS			(957)
COMMUNICATIONS	INFRA	ASTRUCTURE		LS			(194)
DEMOLITION				SM	20,050	159	(3,182)
SUBTOTAL							60,729
CONTINGENCY	(5	6.0%)					3,036
TOTAL CONTRACT (COST						63,766
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				3,635
TOTAL REQUEST							67,400
TOTAL REQUEST (F	ROUNDE	D)					67,300
EQUIPMENT FROM (THER	APPROPRIATIONS (NON	1-ADD)				(2,750.0)
10. Descripti	on of	Proposed Constru	uction: Con	nstru	ction incl	udes a mult:	i-story
steel frame, m	sting	of a drilled ple	er foundatio	on, co	oncrete II f. and an	elevator	Structural Areas
include admini	strat	ive support, open	n-bay dormit	corie	s, central	latrines, o	drill pad,
weapons cleani	ng pa	vilion, physical	training an	ceas,	and store	ige. Demoli	shes
facilities tot	aling	20,050 SM. Fac:	ilities will	L be o	designed a	as permanent	
construction i	n acc	ordance with the	DoD Unified	1 Fac	ilities Cr	iteria (UFC) 1-200-01,
General Buildi	ng Re	equirements and U	C 1-200-02	, Higl	h Performa h DoD onti	nce and Sust	cainable
protection rea	uirem	ents per UFC 4-0	will comply	, with	נסום הסים הי	CELLOLISM/IC	
Air Conditioni	ng:	450 Tons					
11. Requiremen	- <u>-</u>	537 SM Adequat	ce: 0 SM	Subs	tandard: 2	20521 SM	
PROJECT: Cons	truct	Basic Militarv	Training (Bl	MT) R	ecruit Dom	mitory (Cur	rent
Mission)		1	5 (,			
REQUIREMENT:	A maj	or Air Force obje	ective is to	pro	vide recru	its with fac	cilities

 1. COMPONENT
 FY 2017 MILITARY CONSTRUCTION PROJECT DATA
 2. DATE

 AIR FORCE
 (computer generated)
 2. DATE

 3. INSTALLATION, SITE AND LOCATION
 4. PROJECT TITLE

 JOINT BASE SAN ANTONIO - LACKLAND
 BMT RECRUIT DORMITORY 6

 LACKLAND AIR FORCE BASE SITE # 1
 TEXAS

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

2461/MPLS083737R6

721-311

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. To support current accession rates, a total of 8 Recruit Housing & Training (RH&T) facilities are required to accomplish the BMT mission at Lackland AFB. This project provides the fifth 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. Constructs the sixth BMT dormitory building.

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 215,824 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 Esprit de corps among the recruits. These facilities are outdated and are inadequate to support current and planned accessions of Air Force Active Duty, Reserve, and Air National Guard personnel considering future force structure and strength. Due to deterioration, age, and exceeding their useful life, the RH&Ts require significant O&M capital to keep them operational -- an estimated annual average of \$2.1M per RH&T (\$16.8M for today's 8 RH&Ts) for the next 28 years according to the facility assessment study and detailed Economic Analysis. 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 BMT has difficulty accommodating summer recruit surges while accomplishing exist. 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 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

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85976

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

67,300

1. COMPONENT	FY 2017 MILI	ITARY CONSTRU	CTION PROJECT DA	TA	2. DATE	
AIR FORCE	((computer gen	erated)			
3. INSTALLATION,	SITE AND LOCATION		4. PROJECT TITL	E		
JOINT BASE SAN A	NTONIO - LACKLAND	D - LACKLAND BMT RECRUIT DORMITORY 6				
LACKLAND AIR FOR	CE BASE SITE # 1	BASE SITE # 1				
TEXAS						
5. PROGRAM ELEME	INT 6. CATEGORY CODE	7. RPSUID/PI	ROJECT NUMBER	8. PROJECT CO	OST (\$000)	
85976	721-311	2461 /MI	PT.508373786	67	300	

ADDITIONAL: This project meets the criteria/scope for recruit housing specified in Air Force Handbook 32-1084, "Standard Facility Requirements Handbook". The new OSD Dormitory standard does not apply to this facility. It is excluded as a recruit dormitory. A full Economic Analysis was performed demonstrating the economic advantage of new construction to meet the program requirements. Base Civil Engineer: (210) 671-2977. BMT Recruit Dormitory : 19,637 SM = 211,364 SF; MTI Admin: 1,261 SM = 13,573 SF; Training/Formation: 3,283 SM = 35,337 SF; Weapons Cleaning: 465 SM = 5,005 SF; Penthouse for Mechanical Equipment: 1891 SM = 20,347 SF.

BASE CIVIL ENGINEER: Need

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 2017 MILITA	ARY CO	ONSTRUC	TION rated	PROJECI	DATA		2. DATE
2 THOMALLAME		000		J		-,			
5. INSTALLATI	JN AND L	OCATION			4. 1	ROJECT	TITLE	_	
JOINT BASE SA LACKLAND AIR TEXAS	N ANTONI	O - LACKLAND SE SITE # 1			BMT	RECRUIT	DORMIT	ORY 6	
5. PROGRAM EL	EMENT	6. CATEGORY (CODE	7. PRO	JECT	NUMBER	8. PRO	JECT CC)ST (\$000)
85976		721-311		2461/M	PLS0	83737R6		67,	300
12. SUPPLEMEN	TAL DATA								
a. Estimate	d Desigr	Data:							
(1) Statu	s:	_							
(a) Da	te Desig	n Started			-			15	-JUN-15
(b) Pa	rametric	Cost Estimate	s use	d to de	evelo	p costs			YES
* (C) Pe	rcent Co	mplete as of 0	1 JAN	2016					15%
* (d) Da	te 35% I	Designed						31	-MAR-16
(e) Da	te Desig	n Complete	-				<i>с</i> ,	30	-SEP-16
(f) En	ergy Sti	dy/Life-Cycle	analy	sis was	8∕wı⊥	l be pe	riormed		YES
(2) Basis	:								
(a) St (b) Wh	andard o ere Desi	or Definitive D .gn Was Most Re	centl	y Used	-				NO
(3) Total	Cost (c	(a) = (a) + (b)	or (d) + (e)	:				(\$000)
(a) Pr	oduction	of Plans and	Speci	ficatio	ons				893
(b) Al	1 Other	Design Costs							447
(c) To	tal								1,340
(d) Co	ntract								1,117
(e) In	-house								223
(4) Const	ruction	Contract Award							17 FEB
(5) Const	ruction	Start							17 MAR
(6) Const	ruction	Completion							19 MAR
* Indicat which i cost an	es compl s compar d execut	etion of Proje Table to tradit Tability.	ct De ional	finitic 35% de	on wi esign	th Para to ens	metric (ure vali	Cost Es id scop	timate e,
b. Equipmen	t associ	ated with this.	proj	ect pro	ovide	d from	other ar	ppropri	ations:
EQUIPMENT	NOMENC	LATURE	P) APP	ROCURIN ROPRIAI	g 'ION	FISC APPR OR R	AL YEAR OPRIATEI EQUESTEI		COST (\$000)
WALL LOCK	CERS AND	FURNISHING		3400			2018		2,560
ADPE				3080			2018		190

1. COMPONENT	-				OTDUO				2. DAT	E (YYYMME	DD)
AIR FORCE	F	Y 2017 I	VILLIA	RYCON	SIRUC	TION P	ROGRA	AIVI		201509	11
3. INSTALLATION AND LOCATION				4. CON	IMAND				5. ARE		UCTION
HILL AIR FORCE BASE							0014144		COS	T INDEX	
UTAH				AIR FUI		IERIEL	COMINA	ND		1.06	
6. PERSONNEL	(1) F	PERMAN	ENT	(2)	STUDEN	ITS	(3) \$	SUPPOR	TED	т	
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		JIAL
a. AS OF 30-Sep-15	320	1172	9915				283	3182	705		15,577
b. END FY 2021	321	1171	9546				308	3337	700		15,383
7. INVENTORY DATA (\$000)	-						_			-	
a. TOTAL ACREAGE	961,925	6 Main	Base: 6	5,946 Litt	le Mount	ain Test	Compou	ınd; 740:	UTTR:	954,239	
b. INVENTORY TOTAL AS OF	30-Sep-	15									3,650,398
c. AUTHORIZATION NOT YET IN IN	IVENTO	RY									83,083
d. AUTHORIZATION REQUESTED	IN THIS	PROGR	AM (FY	2017)							44,500
e. PLANNED IN NEXT FOUR PROG	RAM YE	EARS (F	Y 2018-2	2021)							51,600
f. REMAINING DEFICIENCY											850,115
g. GRAND TOTAL											4,679,696
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY	2017)								
	CAT	EGORY						CO	ST	DESIG	N STATUS
CODE PRO.	JECT TI	<u>TLE</u>				<u>SCC</u>	<u>OPE</u>	<u>(\$0</u>	<u>00)</u>	<u>START</u>	<u>COMPLETE</u>
216-642 649 MUNS Munitions STAN	MP/Main	tenance	& Inspec	tion Faci		3,716	SM	12,	000	Desi	gn Build
212-213 F-35A Munitions Maintenar	nce Com	plex				1,383	SM	10,	100	Desi	gn Build
211-154 Composite Aircraft Antenna	a Calibra	tion Faci	lity _			1,301	SM	7,1	00	Desi	gn Build
212-213 649 MUNS Precision Guide	ed Missil	e Maintei	nance Fa	acility		1,377	SM	8,7	00	Desi	gn Build
422-264 649 MUNS Munitions Stora	ige Maga	azines				5	EA	6,6	600	Desi	gn Build
		00444	(= 1 - 0 - 0		51/000	,	TOTAL	44,	500		
9. FUTURE PROJECTS IN NEXT FO		GRAM	EARS	FY 2018	-FY 2021)		0.0			
116-662 Install New PCC Apron (HC	it Pad 8)					30,213	SIVI	9,2	200		
141-762 Secure Core Software Fact	iny ingion Cr	ontrol Co	ntor			0,720	SIVI	24, 17	900 500		
141-456 566 RAINS COnsolidated IVI	1551011 C		nier			4,101	SIVI	17,	500		
				FUT			τοται	51	600		
				1010		JUL 010	IOIAL	51,	000		
R&M UNFUNDED REQUIREMENT (\$	M)						τοται	72	0		
10 MISSION OF MAJOR FUNCTION	IS						TOTAL	12			
AFI CMC provides the latest in comma	nd and c	ontrol an	d inform	ation svs	tems for	various	weapons	splatform	is includi	na the E-3 A	WACS and F-
8 Joint STARS; an Air Force Research	Laborat	ory (AFR	L) resea	rch site l	ocation for	or the sp	ace vehi	cles dire	ctorate; a	an air base g	roup and
recruiting group.						-				-	
11. OUTSTANDING POLLUTION AN		TY DEFI		S (FY 2	017 - FY	2021)					
a. Air Pollution						/		()		
b. Water Pollution								()		
c. Occupational Safety and Heal	th							()		
-											
d. Other Environmental								()		
1							TOTAL	()		

1. COMPONENT		FY 2017 MIL	ITARY CONSTRU	JCTION	PROJECT DA	ТА	2. DATE
AIR FORCE			(computer ger	nerate	d)		
3. INSTALLATION	, SITE	AND LOCATION		4. PI	ROJECT TITLE	5	
HILL AIR FORCE	BASE			649 M	UNS MUNITIC	NS STORAGE M	AGAZINES
HILL AFB SITE #	1						
UTAH							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)
72976		422-264	2349	/KRSM1	43007		6,600
		9.	COST ESTIM	ATES			
		TUEN		TT / M	OTIANETEN	UNIT	COST
		11EM		0/M	QUANTITY		(\$000)
PRIMARY FACILIT	IES						3,034
MUNITIONS STOR	AGE MA	GAZINES		EA	5	595,000	(2,975)
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(59)
SUPPORTING FACIN	LITIES						2,671
UTTLITTES				LS			(573)
PAVEMENTS				LS			(968)
SITE IMPROVEME	NTS			LS			(819)
COMMUNICATIONS	SUPPO	RT		LS			(255)
DEMOLITION				SM	321	177	(57)
SUBTOTAL							5,705
CONTINGENCY	(5.0%)					285
TOTAL CONTRACT	COST						5,990
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				341
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF	SUBTOTAL)				228
TOTAL REQUEST							6,560
TOTAL REQUEST (1	ROUNDE	D)					6,600
10. Descripti	on of	Proposed Constr	ruction: Co	nstru	ct five ea	arth covered	l reinforced
concrete modul	lar Mu	nitions Storage	Magazines (MSMs)	capable c	of storing 1	150,000
pounds of clas	s 1.1	munitions each.	New MSMs	are t	o be const	ructed in t	che
Munitions and	Missi	le Storage (MAMS	3) 1 area at	Hill	AFB. Wor	rk includes	access
utilities, sit	e imp	provements, commu	nication su	pport	, and all	other neces	ssarv
support. Faci	lity	will be designed	l as a perma	nent	constructi	lon in accor	dance with
DoD Unified Fa	acilit	ies Criteria (UF	C) 1-200-01	, Gen	eral Build	ling Require	ements and
UFC 1-200-02,	High	Performance and	Sustainable	Buil	ding Requi	rement. Co	omply with
DoD minimum An	titer	rorism Standards	s for buildi	ngs p	er UFC 4-()10-01. Der	nolish two
11 Boguiromor	. 5M)		. 0 GM G	ubata	ndard. 221	CM	
DDO THEM.		fine munitiens		ubsca	- for (40	NING (No.	· M ingian (
PROJECT: Cons	Fine	repeated a stand a	storage mag	azine	S IOF 649	MUNS. (New	v Mission)
new mission ST	TIVE	ransition from M	Connell AF	B. Ka	nsas to Hi	11 AFB, Uta	ah. MSMs
are each to be	e equi	pped with doors	wide enough	to a	ccommodate	the new la	arge
containerized	preci	sion guided muni	tions, and	to ha	ve reinfor	ced concret	ce approach
aprons suitabl	le for	heavy equipment	loading/ma	neuve	ering and t	connect t	co required
access road.	Each	new MSM will req	uire a cate	nary	lightning	protection	system, two
levels of Intr	usion	Detection Equip	ment (IDE),	inte	ernal and e	external lig	phting,
locking mechan	: IINE nism	MSMs are to be	constructed	in e	uch a waw	as to ensur	re proper
	0m •			0	way		
DD FORM 1391,	DEC 9	9 Previ	ous edition	s are	obsolete.		Page No.

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	JCTION PROJECT DAT	ГА	2. DATE	
AIR FORCE		(c	omputer ger	nerated)			
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE	:		
HILL AIR FORCE	BASE	649 MUNS MUNITIONS STORAGE MAGAZINES					
HILL AFB SITE #	1						
UTAH							
5. PROGRAM ELEM	5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000)						
72976		422-264	2349	/KRSM143007	6	,600	

drainage with no steep roadway/apron grades.

<u>CURRENT SITUATION:</u> There are insufficient MSMs to support the scheduled new mission STAMP transition bed down at Hill AFB. All existing MSMs capable of storing Class 1.1 munitions and which are able to physically accommodate the new large containerized precision guided munitions are being used to maximum capacity to support other missions.

<u>IMPACT IF NOT PROVIDED</u>: The 649 Munitions Squadron will not be able to receive delivery of STAMP assets from McConnell AFB in any significant numbers; and the planned STAMP transition program will not be able to go forward as required. Failure to provide adequate munitions storage facilities for this new mission bed down will result in costly production and fielding delays; and specialized assets may not be immediately available to the warfighter when and where he needs them. <u>ADDITIONAL</u>: This project meets the criteria/scope specified in Air Force Instruction 32-1084 "Facility Requirement." An analysis of reasonable options to meet the requirements was conducted and it was determined that constructing five new MSMs in the MAMS 1 area is the only option that will fully meet operational requirements. Base Civil Engineer: Phone (801) 777-7505.

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

1. COMPONENT		FY 2017 MILITARY CO	ONSTR	UCTION PROJECT	DATA	2. DATE
AIR FORCE		(compute	er ge	nerated)		
3. INSTALLATI	ON AND L	LOCATION		4. PROJECT TI	TLE	
HILL AIR FORC	E BASE			649 MUNS MUNI	TIONS STORAGE	MAGAZINES
HILL AFB SITE	# 1					
UTAH						
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CO	OST (\$000)
72976		422-264	234	9/KRSM143007	6,	600
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 (b) Wh	andard o ere Des:	or Definitive Design ign Was Most Recentl	n - Ly Use	ed -		NO
(3) All O	ther Des	sign Costs				330
(4) Const:	ruction	Contract Award				17 FEB
(5) Const:	ruction	Start				17 APR
(6) Const	ruction	Completion				18 JUN
(7) Energ	y Study/	Life-Cycle analysis	was/	will be perfor	med	YES
N/A						

1. COMPONENT		FY 2017 MILIT.	ARY CONSTRU	CTION	PROJECT DAT	ГА	2. DATE
AIR FORCE		(c	omputer gen	erate	d)		
3. INSTALLATION	, SITE	AND LOCATION		4. PF	OJECT TITLE	:	!
HILL AIR FORCE	BASE			649 M	IUNS PRECISI	ON GUIDED MI	ISSILE
HILL AFB SITE #	1			MAINT	ENANCE FACI	LITY	
UTAH						1	
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)
72976		212-213	2349/	KRSM1	43006		8,700
		9. C	OST ESTIMA	TES			
		ITEM		U/M	OUANTITY	UNIT	COST
					~ ~ ~		(\$000)
PRIMARY FACILIT	IES						5,694
PGM MAINTENANC	E FACI	LITY		SM	1,377	4,054	(5,582)
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(112)
SUPPORTING FACIN	LITIES						1,923
UTILITIES				LS			(616)
PAVEMENTS				LS			(321)
SITE IMPROVEME	NTS			LS			(361)
COMMUNICATION	SUPPOR	Т		LS			(600)
CONNECTION CHA	RGE TO	UTILITY PROVIDER		LS			(25)
SUBTOTAL							7,616
CONTINCENCY	(5.0%)						381
TOTAL CONTRACT	(J.U%))					
ANDERWIGTON TH			(5 70.)				7,997
DECION (BUILD	DECTI	ON AND OVERHEAD					450
TOTAL PROMEST	DESIGN	COSI (4.0% OF S	(JALOIAL)				9 759
TOTAL REQUEST		ית					0,730
TOTAL REQUEST (I	ROUNDE						8,700)
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				(1,530
10. Descripti	on of	Proposed Construct	ction: Com	nstru	ct a singl	e story, m	ulti-bay
footings, four	ndatio	on, and elevated fl	loor slab	tiily to ac		a reinforc	ed concrete
loading dock a	t the	work bays. Provi	ide 12 incl	h thi	ck reinfor	ced interi	or concrete
dividing walls	betw	een work bays with	n minimum a	stren	gth of 350	0 psi and	a 12 inch
thick reinford	ed co	oncrete exterior wa	alls and in	nsula	ted standi	.ng seam me	tal roof.
Include an adm	ninist	rative support con	re with sta	andar	d metal st	ud partiti	on walls to
form private o	office	s, men's and womer	n's restro	oms,	tool room,	general s	torage,
mechanical roc	om, el	ectrical room, con	mmunication	ns ro	om, vault,	and break	room. Each
work day to be	equi	pped with 400 Hz/3	20 foot h	wer, igh o	explosion werhead do	proof lign	ting, nign de overall
catenary light	ning	protection, surge	protection	n, in	trusion de	tection, f	ire
detection and	suppr	ession, grounding,	, and exte	rior	lighting a	s required	. Project
includes all s	suppor	ting utilities, si	ite improv	ement	s, communi	cation inf	rastructure,
and pavements;	incl	uding a reinforced	d concrete	appr	oach apron	in front	of a raised
loading dock.	Load	ling dock to be of	reinforce	d con	crete cons	struction a	nd to be
equipped with	one d	lock leveler mechar	nism in fro	ont o	f each wor	k bay door	. Facility
will be design	ned as	a permanent const	truction in	n acc	ordance wi	th DoD Uni	fied
Facilities Cri	teria	(UFC) = 1 - 200 - 01, C	Jeneral Bu Idina Baarr	irore	g Kequirem	ents and U	FC 1-200-02,
Antiterrorism	Stand	lards for buildings	s per IIFC	4-010	-01.	y with DOD	millinnin
Air Conditioni	ng.	40 Tong		_ 010			
ITTE CONVECTORIE	·	10 10115					

DD FORM 1391, DEC 99

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE HILL AIR FORCE BASE 649 MUNS PRECISION GUIDED MISSILE HILL AFB SITE # 1 MAINTENANCE FACILITY UTAH 5. PROGRAM ELEMENT 7. RPSUID/PROJECT NUMBER 6. CATEGORY CODE PROJECT COST (\$000) 72976 212-213 2349/KRSM143006 8,700 Adequate: 7155 SM 11. Requirement: 8532 SM Substandard: 0 SM PROJECT: 649 MUNS Precision Guided Missile Maintenance Facility. (New Mission) **<u>REQUIREMENT:</u>** A facility specifically designed to maintain Precision Guided Missiles (PGM) is required to support the realignment and relocation of PGM specific Standard Air Munitions Package (STAMP) assets from McConnell AFB, Kansas to Hill AFB, Utah beginning in FY15/4. Proposed PGM maintenance facility must be sited in the munitions storage area of Hill AFB, and must be constructed in such a manner, that it is able to accommodate the weighing of T-2 and T-3 munitions pallets for STAMP out load. Proposed facility must be furnished with state-of-theart mechanical and electrical systems in order to support the maintenance operations on the latest generation of PGM used by 5th generation fighter aircraft. CURRENT SITUATION: With the transfer of STAMP assets from McConnell AFB to Hill AFB, the size of the 649 MUNS munitions stockpile will almost double. Most assets gained by the 649 MUNS will be newly assigned PGM weapons systems consisting of rocket propelled weapons (AIM-120, AGM-88, and AGM-158). This is in stark contrast to the weapon systems currently maintained by 649 MUNS, which consist primarily of gravity weapons, aircraft countermeasures/decoys, and special operations munitions. However, the PGMs are the Air Force's preferred weapons systems in a deployable/combat ready condition. Currently there is no facility of any type at Hill AFB capable of weighing and maintaining AIM-120, AGM-88 and AGM-158 assets on T-2 and T-3 pallets. Furthermore, there are no facilities on Hill AFB that could be altered to perform this mission. All other munitions maintenance related facilities are being used to maximum capacity for current mission conventional munitions workloads. IMPACT IF NOT PROVIDED: Without this project, Hill AFB will not be able to meet the delivery schedule of PGM STAMP assets arriving from McConnell AFB as prescribed by a memorandum of record issued 20 March 2014 by Headquarters Air Force Director of Logistics. Lack of PGM STAMP assets maintained and stored at Hill AFB will hinder the STAMP mission of providing munitions to combat forces operating in multiple regions in support of the Air Force's "Deter and Defeat Aggression" mission. ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." A formal economic analysis was conducted and considered other alternatives to new construction including: modifying existing facilities on Hill AFB, leasing off-base facilities, and renovating facilities at other regional military installations. The economic analysis determined that constructing a new PGM maintenance facility at Hill AFB is the most cost effective solution to meet mission requirements. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in Block 9 under Supporting Facilities as, "Connection Charge to Utility Provider". Base Civil Engineer: Phone (801) 777-7505. 649 MUNS Precision Guided Missile Maintenance Facility: 1,377 SM = 14,820 SF

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	JCTION PROJECT DAT	ſA	2. DATE
AIR FORCE		(c	omputer gen	nerated)		
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE		
HILL AIR FORCE	BASE			649 MUNS PRECISI	ON GUIDED MISS	ILE
HILL AFB SITE #	1			MAINTENANCE FACI	LITY	
UTAH						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)
72976		212-213	2349	/KRSM143006	8	,700
JOINT USE CERT	IFICA	TION: Mission requ	uirements,	operational co	nsiderations	, and
location are i	ncomp	atible with use by	y other co	mponents.		

Page No.

. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE 1R FORCE (computer generated) 2. DATE . INSTALLATION AND LOCATION 4. PROJECT TITLE 649 MUNS PRECISION GUIDED MISSILE MAINTENANCE FACILITY ILL AFS SITE # 1 A. TROJECT NUMBER 8. PROJECT COST (\$000) 72976 212-213 2349/KRSM143006 8.700 12. SUPPLEMENTAL DATA: a. Estimated Design Data: 0. NO (b) Mhere Design Costs 435 435 (c) Construction Contract Award 17 FEB 17 APR (c) Construction Completion 18 JUL JUL (r) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: FROCURING APPRC FROCURING APPRC FISCAL YEAR APPROPRIATED (\$000 REQUESTED (\$000 PROCESS EQUIPMENT 3080 2017 1,500 TELECOMMUNICATION EQUIPMENT 3080 2017 1,500 TELECOMMUNICATION EQUIPMENT 3080 2017 10									
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<pre>lighting, fire protection, and supporting facilities including utilities, site improvements, and exterior apron pavement to accommodate munitions and MMHE. Air Conditioning: 100 Tons 11. Requirement: 5829 SM Adequate: 2113 SM Substandard: 2090 SM <u>PROJECT:</u> 649 MUNS Munitions STAMP/M&I Facility. (New Mission) <u>REQUIREMENT:</u> A new munitions Maintenance and Inspection (M&I) facility, combined with an indoor Standard Air Munitions Package (STAMP) assembly bay, is required to replace an obsolete facility that is unsuitable in most every way to support the realignment and relocation of significant elements of the Air Force's STAMP mission</pre>	Provide insula	ted e	exterior walls, ins	sulated st	andin	g seam roo	of, explosi	on proof
<pre>improvements, and exterior apron pavement to accommodate munitions and MMHE. Air Conditioning: 100 Tons 11. Requirement: 5829 SM Adequate: 2113 SM Substandard: 2090 SM <u>PROJECT:</u> 649 MUNS Munitions STAMP/M&I Facility. (New Mission) <u>REQUIREMENT:</u> A new munitions Maintenance and Inspection (M&I) facility, combined with an indoor Standard Air Munitions Package (STAMP) assembly bay, is required to replace an obsolete facility that is unsuitable in most every way to support the realignment and relocation of significant elements of the Air Force's STAMP mission</pre>	lighting, fire	prot	ection, and suppor	ting faci	litie	s includir	ng utilitie	s, site
Air Conditioning: 100 Tons 11. Requirement: 5829 SM Adequate: 2113 SM Substandard: 2090 SM <u>PROJECT:</u> 649 MUNS Munitions STAMP/M&I Facility. (New Mission) <u>REQUIREMENT:</u> A new munitions Maintenance and Inspection (M&I) facility, combined with an indoor Standard Air Munitions Package (STAMP) assembly bay, is required to replace an obsolete facility that is unsuitable in most every way to support the realignment and relocation of significant elements of the Air Force's STAMP mission	improvements,	and e	xterior apron pave	ement to a	ccomm	odate muni	tions and i	MMHE.
11. Requirement: 5829 SM Adequate: 2113 SM Substandard: 2090 SM <u>PROJECT:</u> 649 MUNS Munitions STAMP/M&I Facility. (New Mission) <u>REQUIREMENT:</u> A new munitions Maintenance and Inspection (M&I) facility, combined with an indoor Standard Air Munitions Package (STAMP) assembly bay, is required to replace an obsolete facility that is unsuitable in most every way to support the realignment and relocation of significant elements of the Air Force's STAMP mission	Air Conditioni	ng:	100 Tons					
PROJECT: 649 MUNS Munitions STAMP/M&I Facility. (New Mission) <u>REQUIREMENT:</u> A new munitions Maintenance and Inspection (M&I) facility, combined with an indoor Standard Air Munitions Package (STAMP) assembly bay, is required to replace an obsolete facility that is unsuitable in most every way to support the realignment and relocation of significant elements of the Air Force's STAMP mission	11. Requiremen	lt: 58	29 SM Adequate:	: 2113 SM	Su	bstandard:	2090 SM	
REQUIREMENT: A new munitions Maintenance and Inspection (M&I) facility, combined with an indoor Standard Air Munitions Package (STAMP) assembly bay, is required to replace an obsolete facility that is unsuitable in most every way to support the realignment and relocation of significant elements of the Air Force's STAMP mission	PROJECT: 649	MUNS	Munitions STAMP/M&	I Facilit	y. (N	ew Missior	1)	
with an indoor Standard Air Munitions Package (STAMP) assembly bay, is required to replace an obsolete facility that is unsuitable in most every way to support the realignment and relocation of significant elements of the Air Force's STAMP mission	REQUIREMENT:	A new	munitions Mainter	nance and	Inspe	ction (M&]) facility	, combined
realignment and relocation of significant elements of the Air Force's STAMP mission	with an indoor	Stan	dard Air Munitions	B Package	(STAM	P) assembl	y bay, is :	required to
	realignment an	d rel	ocation of signifi	icant elem	ents	of the Air	Force's S	TAMP mission
			0 Decent			obrolate		Dago No

1. COMPONENT

AIR FORCE

3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH

4. PROJECT TITLE 649 MUNS MUNITIONS STAMP/MAINTENANCE & INSPECTION FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
72976	216-642	2349/KRSM083007	12,000

from McConnell AFB, Kansas to Hill AFB, Utah beginning in FY15/4. A new facility, specifically designed to consolidate all standard munitions M&I operations and all STAMP pallet assembly operations under one roof in a location closer to the munitions storage facilities, is required to meet increased readiness and reduced flow times associated with this new STAMP mission. An enclosed STAMP assembly bay will allow for the assembly of munitions pallets in support of any and all deployment operations, without weather related delays and without the lightning strike safety risk inherent with assembling munitions pallets outdoors.

CURRENT SITUATION: Existing facilities are not adequate to accommodate the additional STAMP assets that will be arriving at Hill Beginning in FY15/4. Current operations are conducted in bldg. 1377, a facility originally built in 1971 for other purposes, but which has now been adapted to serve as an M&I facility for modern munitions. Bldg. 1377 lacks adequate space and mechanical/electrical infrastructure to properly conduct daily M&I of modern munitions. Aircraft Ground Equipment (AGE) generators must be used to supplement electrical power requirements. Overhead doors in work bays are too narrow to accommodate the large forklifts needed to safely move/handle containerized munitions. Work arounds include using smaller forklifts, not rated for the weight being handled, creating an unacceptable accident risk to personnel and material assets. Current door construction cannot economically be retrofitted to meet minimum security requirements. Bldg. 1377 is barely able to support the current workload, let alone the added workload associated with the new mission STAMP transition coming in FY15/4 from McConnell AFB. STAMP assembly operations are currently done outdoors on the concrete approach apron west of bldg 1377, because no suitable indoor facility for these operations exists. Inclement weather has often forced operational delays. During an aircraft pallet build-up operation in Feb 2007, heavy snow/ice accumulation on handling equipment was determined to be the cause of four LDAM kits, worth \$100K each, being dropped and damaged beyond repair. A March 2009 STAMP exercise was cancelled due to the prescribed aircraft load/chalk time being exceeded because of a 30-hour lightning strike hazard delay. During 2012 there were 26 weather related delays due to lightning strikes within 5 miles of the current STAMP pad. Fuel resources and man-hours are regularly wasted transporting munitions on an 8-mile round trip between the munitions storage facilities and bldg 1377.

<u>IMPACT IF NOT PROVIDED</u>: Without this project, Hill AFB will not be able to meet the delivery schedule of STAMP assets arriving from McConnell as prescribed by HQ Air Force Director of Logistics. The 649th Munitions Squadron will continue to grapple with daily facility maintenance issues that affect workplace safety and delay munitions M&I operations. Resources will continue to be wasted and readiness will continue to be affected as weapons are transported the vast distance from the storage area to the current M&I facility in order to ensure that the weapons are fit to be sent to the war fighter. STAMP assembly operations will continue to suffer weather related delays and lightning strike hazards due to the lack of a suitable STAMP assembly shelter.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE							
AIR FORCE	AIR FORCE (computer generated)							
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE								
HILL AIR FORCE	BASE			649 MUNS MUNITIO	NS STAMP/MAINI	ENANCE &		
HILL AFB SITE #	1			INSPECTION FACILITY				
UTAH		1	1		1			
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)		
72976		216-642	2349	/KRSM083007	12	2,000		
32-1084. "Faci	lity	Requirements," An	economic	analysis was co	nducted and	concluded		
new constructi	on to	be the most cost	effective	option. Connec	tion charge	under FAR		
Part 41 for ut	ility	provider to insta	all requir	ed connecting f	acilities, w	hich the		
provider will	own,	operate, and main	tain as pa	rt of their pri	vately owned	system.		
The utility co	nnect	ion charge is incl	luded as L	ump Sum in Bloc	k 9 under Su	pporting		
Facilities as,	"Con	nection Charge to	Utility P	rovider". Base	Civil Engine	er phone:		
(801) 777-7505	5, 649	MUNS Munitions S	FAMP/ M &	I Facility: 3,7	16 SM = 40,0	00 SF.		
JOINT USE CERT	IFICA	TION: Mission requ	uirements,	operational co	nsiderations	, and		
location are i	ncomp	atible with use by	y any othe	r component.				

1. COMPONENT AIR FORCE		FY 2017 MILITA (CO	RY CONST mputer g	RUCTION	PROJECT)	DATA	2.	, DATE
3. TNSTALLATT	ON AND L	OCATION		4 PRO	דדיריד ידי	TT.F		
HILL AIR FORC HILL AFB SITE UTAH	E BASE # 1			649 MUI INSPEC	NS MUNI	TIONS STAMP/M CILITY	AINI	'ENANCE
5. PROGRAM EL	EMENT	6. CATEGORY C	ODE 7.	PROJECT 1	NUMBER	8. PROJECT C	OST	(\$000)
72976		216-642	23	349/KRSMO	83007	12	,000	1
12. SUPPLEMEN	TAL DAT	A:						
a. Estimate	d Desigr	Data:						
(1) Proje	ct to be	accomplished b	y desigr	n-build p	rocedur	es		
(2) Basis (a) St (b) Wh	: andard onere Desi	or Definitive D ign Was Most Re	esign - cently U	sed -				NO
(3) All O	ther Des	ign Costs						600
(4) Const	ruction	Contract Award					17	FEB
(5) Const	ruction	Start					17	APR
(6) Const	ruction	Completion					18	AUG
(7) Energ	y Study/	Life-Cycle anal	ysis was	s/will be	perfor	med		YES
EQUIPMENT	NOMENCI	LATURE	PROCURII	NG APPRC	APPRO OR RE	QUESTED		(\$000)
OVERHEAD	HOIST ST	YSTEM	30	80	2	018		520
PROCESS I	EQUIPMEN'	Г	30	80	2	018		1,000
TELECOMM	JNICATIO	N EQUIPMENT	30	080	2	018		20
FURNISHI	IGS		34	100	2	018		8

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DAT	ГА	2. DATE
AIR FORCE	AIR FORCE (computer generated)						
3. INSTALLATION	3. INSTALLATION, SITE AND LOCATION						
HILL AIR FORCE	HILL AIR FORCE BASE				SITE AIRCRA	FT ANTENNA C	ALIBRATION
HILL AFB SITE # 1				FACIL	JTY		
UTAH		I				1	
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)
27138		211-154	2349,	/KRSM1	43004		7,100
		9. C	OST ESTIMA	TES	1 1		
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILIT	IES						4,923
COMPOSITE AIRCI	RAFT A	NTENNA CALIBRATION F	'AC	SM	1,301	3,709	(4,826)
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(97)
SUPPORTING FACII	LITIES						1,280
UTILITIES				LS			(347)
SITE IMPROVEMEN	NTS			LS			(169)
PAVEMENTS				LS			(400)
COMMUNICATION	SUPPOR	Т		LS			(330)
CONNECTION CHAI	RGE TO	UTILITY PROVIDER		LS			(35)
SUBTOTAL							6,203
CONTINGENCY	(5.0%))					310
TOTAL CONTRACT (COST						6,513
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				371
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	UBTOTAL)				248
TOTAL REQUEST							7,132
TOTAL REQUEST (H	ROUNDE	D)					7,100)
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				(17,425
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ct a high	bay (55 fee	et high)
Aircraft Maint	enanc	e Shop designed ar	nd enginee	red f	or composi	te aircraft	workload.
New constructi	on to	have reinforced (concrete f	ounda	tion, floc	or slab, sti	ructural
construction i	n acc	ordance with DoD I	Inified Fa	cilit	ies Criter	ia (UFC) 1-	-200-01.
General Buildi	.ng Re	quirements and UFC	C 1-200-02	, Hig	h Performa	nce and Sus	stainable
Building Requi	remen	t. Comply with Do	D minimum	Anti	terrorism	Standards i	Eor
buildings per	UFC 4	-010-01. Project	includes	an an	tenna cali	bration tea	st chamber,
mezzanine prep	area	, storage/utility	area, ant	enna	room, unis	ex restroor	n, lightning
mechanical equ	ipmen	t room and all rec	n, and in mired sup	crusi porti	ng facilit	ies includi	ing:
utilities, pav	rement	s, site improvement	nts, and c	ommun	ication su	pport for a	a complete
and usable fac	ility	- '•					_
Air Conditioni	ng:	50 Tons					
11. Requiremen	t: 61	.34 SM Adequate:	: 4833 SM	Su	bstandard:	0 SM	
PROJECT: Comp	osite	Aircraft Antenna	Calibrati	on Fa	cility. (N	(ew Mission))
REQUIREMENT:	An ai	rcraft maintenance	e shop spe	cific	ally desig	ned and eng	gineered for
composite airc	raft	antenna calibratio	on workloa	d is	required b	ecause the	Ogden Air
Logistics Cent	er at	Hill AFB is desig	nated as	the A	ir Force C	enter for 1	Industrial
fighter aircra	ft re	pair, maintenance,	, and modi	ficat	ion. This	antenna ca	alibration

DD FORM 1391, DEC 99 Previous editions are obsolete.

 1. COMPONENT
 FY 2017 MILITARY CONSTRUCTION PROJECT DATA
 2. DATE

 AIR FORCE
 (computer g=rated)
 2

 3. INSTALLATION, SITE AND LOCATION
 4. PROJECT TITLE

 HILL AIR FORCE BASE
 COMPOSITE AIRCRAFT ANTENNA CALIBRATION

 HILL AFB SITE # 1
 FACILITY

HIDD ALD DITH # I		TACIDITI	TACIDITI				
UTAH							
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)				
27138	211-154	2349/KRSM143004	7,100				

capability is required starting in 2016. The requirement is driven by the strip and recoat of the F-22 edges during the repair cycle. The requirement will plateau in FY20-21 at approximately 26 aircraft, with 26 aircraft per year thereafter. Each of these aircraft must undergo antenna recalibration on six discreet parts (156 parts per year) to ensure airworthiness before they can be returned to their home units. Additionally, 24 antenna calibrations per year are required to support nominal fleet maintenance needs. This project is also required to test the low observable radar characteristics of the B-2 bomber flight control components, which workload has also been assigned to the Ogden Air Logistics Center.

<u>CURRENT SITUATION:</u> Currently there are no facilities on Hill AFB suitable in terms of size, electrical capacity, and with proper security to recalibrate the F-22 antenna. The work is currently being done by contractor in Marietta, GA. B-2 flight control Radar Cross Section (RCS) testing is currently being performed in Bldg 1424, which is located in an explosive clear zone of Hill AFB. RCS testing is a non-explosive mission, so the fact that it is being performed in Bldg 1424 puts it in violation of Air Force safety regulations as per Air Force Manual 91-201, but is currently operating under a waiver. The Base Weapons Safety Office has mandated that this mission be moved out of the explosive clear zone as soon as practicable. However, there is no other facility on base suitable for B-2 flight control RCS testing.

IMPACT IF NOT PROVIDED: Without this project, F-22 aircraft arriving at Hill AFB for depot level repair, maintenance, and modification will need to have their antennas shipped to contracted facilities for calibration at a much higher cost than could be done in-house. A business case analysis, prepared by the 309th Aircraft Production Division at Hill AFB, showed that the estimated impact in dollars saved to the Air Force is approximately \$52M over the life of the aircraft. Continued use of the Marietta facility will also delay delivery dates for the F-22 aircraft being returned to their home units after depot, due to cross-country classified shipping requirements. Cross state shipping would also add approximately two weeks to an F-22 repair cycle. In addition, there is a risk of equipment failure at the antenna calibration lab in Marietta due to its age and complexity. The radar used in that facility is no longer produced and spare parts are becoming scarce. The contractor has estimated that a radar replacement and facility reprogramming would take approximately 2 years and cost \$3.4M. If this facility went off-line without a viable alternative in place, the fleet would be without a source of recalibration for its embedded antennas. At the current rate, that would mean up to 24 F-22s per year are at risk for being grounded due to an out of calibration antenna. Without the added benefit of this project being able to accommodate the B-2 flight control RCS mission, this mission will continue to be performed in a facility that places the workers at a certain risk due to its location in an explosive clear zone. As time goes on, the situation will become intolerable to the Base Weapons Safety Office which will likely issue a "cease and desist" order, banning further RCS test operations in Bldg 1424. If this happens, then the B-2 flight control components will need to be shipped to contracted facilities for testing at \$2M annually over in-house testing costs.

1. COMPONENT	FY 2017 MILITARY CONSTRU	2. DATE				
AIR FORCE	(computer gen					
3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TITLE				
HILL AIR FORCE	BASE	COMPOSITE AIRCRAFT ANTENNA CALIBRATION				
HILL AFB SITE #	1	FACILITY				
UTAH						

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27138	211-154	2349/KRSM143004	7,100

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." An economic analysis has been prepared comparing all reasonable alternatives to new construction. New construction was deemed the most cost effective alternative to meet the requirement. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in Block 9 under Supporting Facilities as, "Connection Charge to Utility Provider". Base Civil Engineer: (801) 777-7505. Composite Aircraft Antenna Calibration Facility: 1,301 SM = 14,000 SF.

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

1. COMPONENT AIR FORCE	1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated)								
3 TNSTALLATIO	N AND LOCATION			መፕመፕ ፱					
HILL AIR FORCE HILL AFB SITE	BASE # 1		COMPOSITE A	IIILE IRCRAFT ANTENNA	CALIBRATION				
5. PROGRAM ELE	MENT 6. CATEGORY	CODE 7. PI	OJECT NUMBE	R 8. PROJECT C	OST (\$000)				
27138	211-154	234	9/KRSM143004	7,	100				
12. SUPPLEMENT	AL DATA:								
a. Estimated	Design Data:								
(1) Project	to be accomplished	by design-	build proced	ures					
(2) Basis:									
(a) Sta (b) Whe	ndard or Definitive I re Design Was Most Re	Design - ecently Use	ed -		NO				
(3) All Oth	ner Design Costs				355				
(4) Constru	uction Contract Award				17 FEB				
(5) Constru	action Start				17 APR				
(6) Constru	action Completion				18 JUN				
(7) Energy	Study/Life-Cycle ana	lvsis was/	will be perf	ormed	YES				
EQUIPMENT	NOMENCLATURE	PROCURING	APPRC APP OR	PROPRIATED REQUESTED	COST (\$000)				
F-22 ANTEN	NA PROCESS EQUIPMENT	301	D	2018	13,000				
B-2 RADAR	TEST EQUIPMENT	301)	2018	1,800				
ANECHOIC M	IATERIAL	301	0	2018	2,300				
DIGITIAL I	OPHATS	301	0	2018	300				
OVERHEAD C	RANE	301	0	2018	25				

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE	
AIR FORCE		(computer generated)						
3. INSTALLATION HILL AIR FORCE	BASE	: AND LOCATION		4. PF F-35A	ROJECT TITLE MUNITIONS	E MAINTENANCE C	OMPLEX	
UTAH	· I							
5. PROGRAM ELEM	IENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT C	OST (\$000)	
27142 212-213 2349				KRSM1	.43003	1	0,100	
		9. C	OST ESTIMA	TES				
ITEM				U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILIT	IES						6,148	
MUNITIONS MAIN	TENANC	E FACILITY (212-213)		SM	1,051	4,442	(4,668)	
MUNITIONS BAY	ADDITI	ON TO BLDG 988 (212-	-213)	SM	297	4,071	(1,209)	
STORAGE ADDITI	ON TO	BLDG 988 (442-758)		SM	35	1,147	(40)	
RENOVATE & MOD	ERNIZE	BLDG 988 (212-213)		SM	869	127	(110)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(121)	
SUPPORTING FACE	LITIES						2,609	
UTILITIES				LS			(407)	
PAVEMENTS				LS			(865)	
SITE IMPROVEME	NTS			LS			(326)	
COMMUNICATIONS	SUPPO	RT		LS		ĺ	(500)	
DEMOLITION				SM	1,165	396	(462)	
CONNECTION CHA	RGE TO	UTILITY PROVIDER		LS			(50)	
SUBTOTAL						-	8,757	
CONTINGENCY	(5.0%))					438	
TOTAL CONTRACT	COST					-	9,195	
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				524	
DESIGN/BUILD -	DESIGN	COST (4.0% OF S	SUBTOTAL)				350	
TOTAL REQUEST						=	10,070	
TOTAL REQUEST (ROUNDE	D)					10,100)	
EQUIPMENT FROM	OTHER	APPROPRIATIONS (NON-	ADD)				(160	
10. Descripti Maintenance Co maintenance fa renovating and will include t area. The add munitions main concrete footi frame walls wi insulated star additions to H	TOTAL REQUEST (ROUNDED)10,100)EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)(16010. Description of Proposed Construction: Construct an F-35A MunitionsMaintenance Complex composed of a 1,051 SM standalone three-bay munitionsmaintenance facility, and a 332 SM addition to Bldg 988. Project includesrenovating and modernizing Bldg 988. The standalone munitions maintenance facilitywill include three drive-through maintenance bays and an administrative supportarea. The addition to Bldg 988 will include a 35 SM storage bay and a 297 SMmunitions maintenance bay. All new construction will consist of reinforcedconcrete footings, foundations, slabs, and maintenance bay walls; insulated steelframe walls with metal siding for the storage bay addition to Bldg 988; and aninsulated standing seam metal roof over both the standalone facility and theedditions to Bldg 989.							

equipped with 115 VAC, 60 Hz, single phase and 115 VAC, 400 Hz, three phase power and explosion proof lighting, outlets, switches, and door openers. Provide selfsupporting 5-ton bridge crane in the maintenance bay addition to Bldg 988. All new construction will have fire detection/ suppression, intrusion detection, and catenary lightning protection. Bldg 988 renovation and modernization will include fiber optics for the communication system, in order to support the installation of

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE HILL AIR FORCE BASE F-35A MUNITIONS MAINTENANCE COMPLEX HILL AFB SITE # 1 UTAH 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER PROJECT COST (\$000) 27142 212-213 2349/KRSM143003 10,100 Autonomic Logistics Information System (ALIS) data terminals and server. Project includes all supporting utilities, site improvements and pavements including access roads and parking lot. Demolish three facilities for 1,165 SM. 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. Air Conditioning: 40 Tons 11. Requirement: 2252 SM Adequate: 0 SM Substandard: 869 SM PROJECT: F-35A Munitions Maintenance Complex (New Mission) **<u>REQUIREMENT:</u>** An adequately sized and configured munitions maintenance complex is required to support the beddown of seventy-two F-35 aircraft, and the associated munitions workload beginning in FY15. This project is also required to eliminate a quantity distance safety violation, in accordance with Air Force Manual (AFMAN) 91-201 Explosive Safety Standards, by adding a 1.1 explosive-rated work bay for Bldg 988 outside the 750 LF hazardous fragmentation distance from Taxiway Echo. The existing work bays in Bldg 988 will be used for either non-explosive or lower HD explosive operations. This project is also required in order to increase readiness and reduce flow time by consolidating all munitions maintenance and inspection operations at one location. CURRENT SITUATION: Existing munitions work bays in Bldg 988 are too close to Taxiway echo to be able to service the 1.1 explosive-rated munitions associated with the F-35A aircraft. Currently, Bldg 988 has a Numbered Air Force-level explosive safety waiver for failing to meet DoD minimum quantity-distance separation requirements in relation to a military use-only taxiway. This violation places the F-35A beddown mission at Hill AFB at risk and must be resolved as soon as possible to preserve the installation's capabilities and to comply with the intent of AFMAN 91-201 by eliminating the violation and the risk. Bldg 988, and all other existing munitions inspection and maintenance facilities on Hill AFB, lack adequate space, electrical capacity, compressed air capacity, and roll-up door sizes to support the F-35A new mission beddown. This includes Bldg 960, a 54-year old facility where current F-16 fighter aircraft munitions maintenance operations are conducted. Other operations are conducted in temporary K-span structures (Bldgs 937 and 938) built in the 1950s for, what was then, the ICBM mission. These K-spans are in violation of the Quantity Distance Safety Standards for 1.1 explosive operations per AFMAN 91-201 and Department of Defense Explosive Safety Board (DDESB) safety standards. There are no other facilities on base that could be altered to accommodate this mission. IMPACT IF NOT PROVIDED: Without this project, the F-35A new mission beddown assigned to Hill AFB will not be able to proceed on schedule, thereby delaying the delivery of F-35A fighter aircraft to the 388th FW. Hill AFB will be left without a certified facility to inspect and maintain the modern containerized conventional 1.1 explosive-rated munitions, and the precision guided munitions associated with the F-35A fighter aircraft. F-35A aircrews will not be able to use the munitions available to them because the 388 Equipment Maintenance Squadron (EMS) will not be Previous editions are obsolete. Page No.

1. COMPONENT	FY 2017 MILITA	TA	2. DATE			
AIR FORCE	(cc	omputer gen	erated)			
3. INSTALLATION	, SITE AND LOCATION		4. PROJECT TITLE	l		
HILL AIR FORCE I	BASE		F-35A MUNITIONS MAINTENANCE COMPLEX			
HILL AFB SITE #	1					
UTAH						
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	OST (\$000)	
27142	212-213	/KRSM143003	10	,100		

able to conduct proper inspection and maintenance operations that ensure the safe and reliable employment of these weapons. Mission readiness and capability will be significantly degraded.

ADDITIONAL: This project meets applicable criteria, scope, and requirements specified in Air Force Manual (AFMAN) 32-1084, AFMAN 91-201, Air Force Instruction (AFI) 21-200, AFI 21-201, and DDESB Standards. A preliminary analysis of reasonable options to meet the requirements for this mission was conducted and included: status quo, renovation, and new construction. The conclusion was that a combination of renovating Bldg 988, together with constructing the new additions to Bldg 988 for precision guided munitions maintenance and the construction of a stand-alone three-bay facility for conventional munitions maintenance, is the only option that will meet operational requirements. An economic analysis verifying this is being performed. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in block 9 under supporting facilities as, "Connection charge to Utility Provider". Base Civil Engineer: (801) 777-7505. F-35A Munitions Maintenance Complex 1,051 SM = 11,308 SF; Munitions Bay Addition to Bldg 988 297 SM = 3196 SF; Storage addition to Bldg 988 35 SM = 377 SF; Renovate/Modernize Bldg 988 869 SM = 9,351 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.

r									
1. COMPONENT	1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE		(com	puter ge	herate	d)				
3. INSTALLATI HILL AIR FORC HILL AFB SITE UTAH	ON AND I E BASE : # 1	OCATION		4. PR F-35A	OJECT TI MUNITIO	TLE NS MAINTENANCI	E C	OMPLEX	
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST									
27142 212-213 2349/KRSM143003 10,100								0	
12. SUPPLEMEN	ITAL DAT	A:							
a. Estimate	d Design	n Data:							
(1) Proje	ct to be	accomplished by	y design-	build	procedur	es			
(2) Basis (a) St (b) Wh	: andard o here Des	or Definitive De ign Was Most Rec	sign - ently Use	ed -				NO	
(3) All O	ther Des	ign Costs						404	
(4) Const	ruction	Contract Award					17	FEB	
(5) Const	ruction	Start					17	MAR	
(6) Const	ruction	Completion					18	SEP	
(7) Energ	y Study/	Life-Cycle analy	ysis was/	will b	e perfor	med		YES	
EQUIPMEN	NOMENC	LATURE	PROCURING	APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)	
COMMUNICA	ATIONS E	QUIPMENT	340	0	2	2018		125	
FURNISHI	NGS		340	0	2	2018		35	

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROGRAM								E (YYYMME 201509	DD) 11	
3. INSTALLATION AND LOCATION	4. COMMAND 5 AREA										
JOINT BASE LANGLEY - EUSTIS						~	_		COS	TINDEX	
VIRGINIA				AIR CO	MBAT C	OMMAN	D			0.95	
6. PERSONNEL	(1) F	PERMAN	IENT	(2)	STUDEN	ITS	(3) \$	SUPPOR	TED	т	
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		JIAL
a. AS OF 30-Sep-15	1392	6170	3187						700		11,449
b. END FY 2021	1356	5921	2961						700		10,938
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE	3,674										
b. INVENTORY TOTAL AS OF	30-Sep-	15									1,900,000
c. AUTHORIZATION NOT YET IN IN	IVENTO	RY									64,800
d. AUTHORIZATION REQUESTED	IN THIS	PROGR	AM (FY	2017)							59,200
e. PLANNED IN NEXT FOUR PROG	GRAM YE	EARS (F	Y 2018-2	2021)							0
t. REMAINING DEFICIENCY											28,700
g. GRAND TOTAL			0017)								2,052,700
8. PROJECTS REQUESTED IN THIS	PROGR		2017)						ет	DESIC	
						500	DE	(\$0		OESIGI STADT	COMPLETE
141.454 Air Force Targeting Center						8 810	SM	<u>(90</u> 45	000	<u>06/15</u>	
211-179 Fuel System Maintenance	Dock					3 392	SM	40, 14	200	06/16	09/10
	DOOR					0,002	OW	1-1,	200	00/10	03/10
9. FUTURE PROJECTS IN NEXT FO None	UR PRO	GRAM	(EARS (FY 2018	-FY 2021)	TOTAL	59,	200		
				FUTU	JRE PRO	DJECTS	TOTAL	(0		
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	98	3.3		
10. MISSION OR MAJOR FUNCTION	IS										
Langley AFB is host to Headquarters A Command and Control Intelligence, Su Air Force Rescue Coordination Center.	ir Comba rveillance	at Comm e and Re	and, a fi connais	ghter win sance Ce	ig with F- enter (AC	22A figh 2ISRC),	ters, an a Detachr	airlift win nent of th	g, an inte ne USAF	elligence gro Doctrine Ce	up, Aerospace enter, and the
11. OUTSTANDING POLLUTION AN	D SAFE	TY DEFI	CIENCIE	S (FY 2)	017 - FY	2021)					
a. Air Pollution								(C		
b. Water Pollution								(0		
c. Occupational Safety and Heal	th							(D		
d. Other Environmental								(0		
							τοται		0		
DD Farm 1999, IIII 1999		חח				TE	IUTAL		U		

DD Form 1390, JUL 1999

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT		FY 2017 MIL	TARY CONSTRU	CTION	PROJECT DA	TA	2. DATE		
AIR FORCE	(computer generated)								
3. INSTALLATION	, SITI	E AND LOCATION	4. PROJECT TITLE						
LANGLEY AIR FOR	CE BAS	SE	AIR F	ORCE TARGE	IING CENTER F	ACILITY			
LANGLEY AFB SIT	E # 1								
VIRGINIA									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT	COST (\$000)		
27431 TIAR#	4	141-454	2479/1	MUHJ13	3000		45,000		
		9.	COST ESTIM	TES					
		ттем		TT/M	OIIANTTTV	UNIT	COST		
		1154			QUANTITI		(\$000)		
PRIMARY FACILIT	IES						24,540		
AIR FORCE TARG	ETTING	CENTER FACILITY		SM	8,810	2,731	(24,058)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(482)		
SUPPORTING FACII	LITIES						16,087		
UTILITIES				LS			(2,644)		
PAVEMENTS				LS			(2,013)		
SITE IMPROVEME	NTS			LS			(1,600)		
SPECIAL FOUNDA	TION			LS			(3,000)		
COMMUNICATIONS	SUPPO	DRT		LS			(4,500)		
SOFTBALL FIELD	DEMOI	ITION AND RELOCATION	NC	LS			(250)		
ENVIRONMENTAL				LS			(2,000)		
CONNECTION CHAI	RGE TO	UTILITY PROVIDER		LS			(80)		
SUBTOTAL							40,627		
CONTINGENCY	(5	.0%)					2,031		
TOTAL CONTRACT (COST						42,658		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				2,432		
TOTAL REQUEST							45,090		
TOTAL REQUEST (F	ROUNDE	D)					45,000		
EQUIPMENT FROM (THER	APPROPRIATIONS (NON	I-ADD)				(10,910.0)		
10. Descripti	on of	Proposed Constru	uction: Con	nstru	ct a new 1	Cargeting Ce	nter		
facility for t	he 25	th AF utilizing o	conventional	l des	ign and co	onstruction	methods to		
accommodate th	e mis	sion of the faci	lity. The :	Eacil	ity should	l be compati	ble with		
the DoD, Air F	orce,	and base design	standards.	In	addition,	local mater	ials and		
construction t	echni	ques shall be use	ed where co	st ef:	fective.	Facility wi	ll be		
Criteria (UEC)	1_20	0-01 Ceneral But	ilding Pequ	ireme	ntg and III	$r_{\rm C}$ 1-200-02	High		
Performance an	d Sus	tainable Building	r Requirement	nt.	Comply wit	h DoD minim	111 911 11m		
Antiterrorism	Stand	ards for building	gs per UFC	4-010	-01. Incl	udes emerge	ncy		
generator, sit	e imp	rovements, specia	al foundation	on te	n feet abo	ove mean hig	h tide sea		
level, parking	, and	all necessary su	upport. Con	nstru	ct long-ru	un outside p	lant		
communications	and	additional inside	e plant sec	ure d	istributio	on support.	Demolish		
and relocate t	wo in	tramural softball	l fields.						
Air Conditioni	ng:	600 Tons							
11. Requiremen	t: 88	10 SM Adequate	e: SM Si	ubsta	ndard: 399	97 SM			
PROJECT: Air	Force	Targeting Center	r Facility.	(Ne	w Mission))			
REQUIREMENT:	Provi	de a suitable fac	cility to s	lppor	t AF Progr	am Action D	irective		
(PAD) 14-02 di Wing (ISRW), p	recti rovid	on to standup new ing 24/7 mission	v Intellige capability	for	Surveillar Command &	ice and Reco Control (C2	nnaissance) of AF		

DD FORM 1391, DEC 99

Previous editions are obsolete.

 1. COMPONENT
 FY 2017 MILITARY CONSTRUCTION PROJECT DATA
 2. DATE

 AIR FORCE
 (computer generated)
 2. DATE

 3. INSTALLATION, SITE AND LOCATION
 4. PROJECT TITLE

 LANGLEY AIR FORCE BASE
 AIR FORCE TARGETING CENTER FACILITY

 LANGLEY AFB SITE # 1
 VIRGINIA

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

2479/MUHJ133000

141-454

Target and Threat Analysis and Production to meet the CSAF intent for a single reach-back targeting and threat analysis capability for USAF. Including collateral space for command sections, mission support offices, Secure Compartmented Information Facility (SCIF) space for an operations floor, training area, back shop support, unclassified information technology support, and warehouse space to accommodate new mission growth of up to 705 personnel. Required manning includes 376 existing on-base personnel, 74 relocating to Langley and an additional 255 now in the POM process. Provide functional space to collocate 363 ISRW mission crews and support personnel, mission systems, data storage/processing equipment, backup power, and unique communication capabilities to meet targeting requirements of the air components. Requirement is for in-garrison real-time, near-real-time and deliberate planning of targeting capabilities across air, space and cyber domains. Facility must include space for 1,750 workstations and associated racks, communications equipment, mechanical space, conditioned computer warehouse space, and command staff offices for Center and three Squadrons. Facility space must accommodate crew size based on number, duration and frequency of worldwide targeting and geospatial intelligence operations in support of Allied Forces. Facility must include space for operations, mission support, logistics support; and administrative support.

CURRENT SITUATION: Beginning in FY10, mission equipment and crews moved temporarily into Facilities 326, 333, 337, 339, and 1352 spread across the base. These facilities are inadequately equipped with power, HVAC, UPS, and backup power, which has led to significant down time and mission degradation. Repairs/renovations for four of the facilities over the past 5 years cost approximately \$950K, including 3,500+ man-hours. Additional repairs (\$800K) replaced server room equipment, later destroyed when the fire suppression sprinkler system inadvertently activated. This occurred because of a failed HVAC system and faulty notification device, affecting the server room. According to Joint Base Langley-Eustis Area Development Plan (ADP), December 2013 (Contract # W91238-10-D-0041), four facilities currently being utilized for this mission are identified for demolition to expand flight line operations under the Conceptual Development Plan for Flightline West. The JBLE ADP includes the relocation of all on-base ISR assets to North Base to establish an ISR Campus. ACC/DSF previously conducted a space utilization study to address moving the 363 ISR Wing to other ACC facilities; the study concluded available space was inadequate. Collocation with DGS-1 is a key operational objective designed to facilitate daily face-to-face operational interaction and training between DCGS collection/exploitation analysts and targeting and threat analysts. This represents the total force manpower for AF Targeting operations and support, including one active duty wing, one active duty group, four active duty squadrons, and one Air Force Reserve squadron. IMPACT IF NOT PROVIDED: As the single targeting reach-back capability for the AF, the 363 ISRW provides a variety of services for every Combatant Command within the Department of Defense through their respective Air Components. Without the new 363 ISRW facility, increasing requirements will exceed the current capability to

execute the mission due to the limited space for operators and workstations. The reach-back construct merges warfighter customer requirements with target production

27431 TIARA

45,000

1. COMPONENT	FY 2017 MILI	TA 2. DATE								
AIR FORCE	((computer generated)								
3. INSTALLATION	3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE									
LANGLEY AIR FOR	LANGLEY AIR FORCE BASE AIR FORCE TARGETING CENTER FACILITY									
LANGLEY AFB SIT	E # 1									
VIRGINIA										
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)							
27431 TIARA	A 141-454	2479/MUHJ133000	45,000							

unit capacity on both a dynamic and deliberate basis. This construct must have survivable command, control, and operations with adequate power, communications. and HVAC. Currently, the areas represent mission-limiting impacts on current facilities. Mission degradation will deprive theater forces of critical, real-time data needed to employ precise munitions in support operations, putting warfighters needlessly in peril, and increasing the probability of collateral damage. Additionally, if not provided, existing facilities must continue to rely on the decaying physical infrastructure that is currently unable to meet the communication, HVAC, or power requirements in support of new mission. ADDITIONAL: This project meets the criteria/scope specified in the AFM 32-1084, Facility Requirement. Air Force Targeting Center Facility: 8,810 SM = 94,800 SF. Base Civil Engineer: (757) 764-2025.

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

r								1		
1. COMPONENTFY 2017 MILITARY CONSTRUCTION PROJECT DATA2. DATEAIR FORCE(computer generated)										
3. TNSTALLATT	ON AND T	OCATION			4 5		rTTI.F			
LANGLEY AIR F LANGLEY AFB S VIRGINIA	ORCE BAS	3E			AIR	FORCE T	ARGETING CENTI	R FACILITY		
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT CO										
27431 TIARA 141-454 2479/MUHJ133000 45,000										
12. SUPPLEMENTAL DATA:										
a. Estimate	d Design	n Data:								
(1) Statu	s:	a								
(a) Da	ramotri	gn Started a Cost Estimato	aac	d to de		n acata	20	-FEB-15		
(D) Pa		cost Estimate	S USE		evero	p costs		IES 1 E S		
* (C) Pe	rcent C	ompiete as or U	I JAN	2010			22	15 %		
^ (d) Da	te 35% I	Designed					22	-DEC-15		
(e) Da	oran St	yn Compiete udw/Lifo-Cwalo		aia wa	. /	1 he per	20 formod	-SEP-10 VEC		
	lergy sc	udy/hite-cycie	anary	SIS Was	5/WII	I De per	Tormed	169		
(2) Basis	:									
(a) St	andard o	or Definitive D	esign	L —				NO		
(b) Wh	ere Des	ign Was Most Re	centl	y Used	-					
(3) Total	Cost (c) = (a) + (b)	or (d) + (e)	:			(\$000)		
(a) Pr	oduction	n of Plans and	Speci	ficatio	ons			2,700		
(b) Al	1 Other	Design Costs	-					1,350		
(c) To	tal	-						4,050		
(d) Co	ntract							3,375		
(e) Ir	-house							675		
(4) Const	ruction	Contract Award						17 MAR		
(5) Const	ruction	Start						17 MAY		
(6) Const	ruction	Completion						19 NOV		
* Indicat which i cost an	es compi s compa: d execut	letion of Proje rable to tradit tability.	ct De ional	finitic . 35% de	on wi esign	th Param to ensu	metric Cost Es are valid scop	timate e,		
b. Equipmer	t assoc	iated with this	proj	ect pro	ovide	d from c	other appropri	ations:		
EQUIPMEN	FISCAL YEAR PROCURING APPROPRIATED EQUIPMENT NOMENCLATURE APPROPRIATION OR REOUESTED									
COMMUNICATIONS EQUIPMENTS 3080 2018								10,910		

1. COMPONENT		FY 2017 MIL	TARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE		
AIR FORCE (computer generated)									
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE									
LANGLEY AIR FORCE BASE FUEL SYSTEM MAINTENANCE DOCK									
LANGLEY AFB SIT	E # 1								
VIRGINIA									
5. PROGRAM ELEM	5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$0)								
27596		211-179	2479/M	JHJ073	013R1	1	4,200		
9. COST ESTIMATES									
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)		
PRIMARY FACILIT	ES						8,258		
FUEL SYSTEM MA	INTENZ	ANCE DOCK		SM	2,760	2,936	(8,103)		
SUSTAINABILITY	AND B	ENERGY MEASUERS		LS			(155)		
SUPPORTING FACII	LITIES	l					4,505		
UTILITIES				LS			(648)		
SITE IMPROVEMEN	NTS			LS			(420)		
PAVEMENT				LS			(1,138)		
COMMUNICATIONS				LS			(190)		
SPECIAL FOUNDA	TION			LS			(1,060)		
ASBESTOS ABATE	MENT			LS			(95)		
DEMOLITION				SM	1,567	258	(404)		
RELOCATE LOX B	UILDIN	1G		LS			(550)		
SUBTOTAL							12,764		
CONTINGENCY	(5	5.0%)					638		
TOTAL CONTRACT (COST						13,402		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				764		
TOTAL REQUEST							14,166		
TOTAL REQUEST (F	ROUNDE	D)					14,200		
EQUIPMENT FROM (THER	APPROPRIATIONS (NON	I-ADD)				(70.0)		
10. Descripti	on of	Proposed Constru	uction: Con	nstru	ct steel h	angar, to in	nclude		
special founda	tion	pilings, standing	g seam meta	l roo	f and inte	erior finishe	35.		
Primary Facili	ty in	cludes electrical	l, static-g	round	ed floor,	plumbing, he	ating,		
compressed air	syst	em, fire detection	on/protectio	on, m	echanical	air ventilat	lon, iume		
trenches, foam	wast	e distribution ar	nd pump stat	tion.	and speci	al foundatio	n ten (10)		
feet above hig	h mea	n sea level. Rel	locate LOX a	stora	ge structu	re (159 SM).	. Demolish		
one facility (1,567	SM). The HVAC sy	ystem, exhau	ust w	all and do	or for this	type		
facility shall	be d	lesigned and const	ructed per	Virg	inia Air Ç	uality guide	elines.		
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, Gen	neral	Building	Requirements	s, and UFC		
1-200-02, High	Perf	ormance and Susta	ainable Bui	lding	Requireme	ents. This p	project		
Air Conditioni		10 Tong	Lorde proced	201011	requireme	incs, per uro	, 4-010-10.		
11. Requiremen	t: 27	60 SM Adequate	e: SM SI	ubsta	ndard: 156	7 SM			
PROJECT: Cons	truct	Fuel System Main	ntenance Do	ck. (Current Mi	ssion)			
REQUIREMENT:	Const	ruct a fuel cell	hangar, des	signe	d to prope	erly accommod	late two F-		
22A aircraft w	ith a	djoining support	spaces to r	neet	facility r	equirements	outlined		
in Technical O	rder	1-1-3, Chapter 3,	, para 3.2.2	2 and	requireme	ents dictated	l by AFMAN		

DD FORM 1391, DEC 99

Previous editions are obsolete.

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE	(computer generated)								
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE									
LANGLEY AIR FORCE	BASE		FUEL SYSTEM MAIN	NTENANCE DOCK					
LANGLEY AFB SITE	# 1								
VIRGINIA									
5. PROGRAM ELEMENT	EMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT CO								
27596	211-179	2479/M	UHJ073013R1	14	,200				
32-1084. Facili	ty will comply with	all applic	able Unified Fa	cility Crite	ria (UFC)				
and all current	Engineering Technica	al Letters	(ETL). Facilit	y support are	eas will				
include separate	shower/restroom/log	cker facili	ties for male a	and female per	rsonnel, a				
separate dispate	h area with ventilat	tion contro	ls, two supervi	sor offices,	a				
break/training r	oom, mobility equip	ment storag	e and a separat	e storage are	ea for				
tools and equipm	ent. Facility must	be large e	nough to allow	concurrent ma	aintenance				
operations and p	rovide safe maneuve	ring space	for two $F-22A$ a	ircraft.					

CURRENT SITUATION: The existing fuel facility is too small and improperly configured for safe, concurrent maintenance activities on two F-22A aircraft and does not comply with Technical Order 1-1-3 exhaust requirements for maintenance and repair of aircraft integral fuel cells. Quarterly ventilation surveys have detected harmful fuel vapor concentrations in the dispatch and break rooms, caused by insufficient ventilation systems. Limited hangar space produces routine maintenance delays and fails to provide the required wing tip clearances for aircraft. Hangar doors must remain open to accommodate two aircraft and reduce worker exposure to harmful chemical fumes. Multiple tow teams must carefully maneuver aircraft (nose-first) into position within the hangar, for every maintenance cycle, to ensure wing tips do not collide. These procedures are complex and take several hours for two aircraft, and they expose maintenance personnel and aircraft to very high levels of risk. Because personnel must push back each aircraft to exit the hangar, both people and aircraft are highly vulnerable to loss in the event of a fire. Air quality surveys also reveal personnel working in aircraft fuel tanks risk an unacceptable over-exposure to Benzene. The hangar ventilation system has failed multiple times, forcing personnel to use portable purging equipment normally reserved for deployments. Locker/shower areas are too small and ill equipped to accommodate male and female personnel. Adequately sized showers and scrub sinks are necessary to eliminate the possibility of cross-contamination when personnel change from in-tank coveralls into duty uniforms. A lighting survey conducted on 30 November 2006 documented a deficiency of 70 foot-candles within maintenance work areas.

IMPACT IF NOT PROVIDED: The reliability and safety of fuel systems maintenance for the F-22A will continue to decline and jeopardize the 1st Fighter Wing's ability to carry out its mission in an effective, safe and timely manner. Maintenance personnel will be required to continue working in hazardous and unhealthy work environments, routinely exposed to chemical fumes caused by poor ventilation. Tow teams and aircraft will remain at risk of injury, damage or loss in fire events due to complex and slow exit procedures. Continuously increased maintenance demands for critical onboard systems in these existing conditions will threaten the wing's ability to ensure on-time delivery of mission-ready F-22A aircraft.

ADDITIONAL: This project meets applicable criteria/scope specified in AF MANUAL 32-1084, Facility Requirements. An Economic Analysis was performed that recommended New Construction as the only option that will meet the 1st Fighter Wing's fuel systems maintenance requirements. Under the Repair alternative, the existing fuel cell would remain too small and improperly configured to accommodate continued fuel systems maintenance operations safely and efficiently. Base Civil Engineer: (757) 764-2025. (Fuel System Maintenance Dock: 2,760 SM = 29,698SF)

Previous editions are obsolete.

1. COMPONENT		FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE		(computer generated)								
3. INSTALLATION	. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE									
LANGLEY AIR FORCE BASE FUEL SYSTEM MAINTENANCE DOCK										
LANGLEY AFB SITE # 1										
VIRGINIA			1		1					
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CC	ST (\$000)				
27596		211-179	2479/M	JHJ073013R1	14	,200				
JOINT USE CERT available" bas requirements.	IFICA	ATION: This facil: however, the scope	ity can be	used by other o	components on on Air Force	an "as				

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated)											
3. INSTALLATI	ON AND I	OCATION			4. PROTE	сст т	ידיד.ב	1			
LANGLEY ATR F	ORCE BAS	۶.			FIIRI. SVS	STEM	MAINTENANCE I	OCK			
LANGLEY AFB S VIRGINIA	ITE # 1	-									
5. PROGRAM EL)ST (\$000)										
27596 211-179 2479/MUHJ073013R1 14,200											
12. SUPPLEMENTAL DATA:											
a. Estimate	d Design	n Data:									
(1) Status:											
(a) Da	te Desig	n Started		a a.			15	-JUN-15			
	rametric	c Cost Estimates	s use	a to a	everop co	STS		1 E Q			
* (C) Pe		Dagigmod	LUAN	2010			21	136 MAD 16			
(u) Da	te Desid	n Complete					30	-MAR-10 -SFD-16			
(e) Da (f) Er	erav Sti	dv/Life-Cvcle a	nalv	gig was	:/will be	ner	formed	VES			
	lergy bet	dy/life-cycle a	шату	SIS Was	5/WIII De	. per	rormed	1110			
(2) Basis	:										
(a) St	andard o	or Definitive De	sign	. –				NO			
(b) Wh	ere Desi	ign Was Most Rec	entl	y Used	-						
(2) [[r = (r) + (h)						(\$000)			
(3) TOTAL	Cost (C	c) = (a) + (b) o	or (a Imagi) + (e) ficatio				(\$000)			
(a) PI (b) Al	l Other	Dogign Costs	speci	ficatio	ons			852			
(C) TC	tal	Design Costs						420			
(d) Co	ntract							1,278			
(e) In	-house							213			
(4) Const	ruction	Contract Award						17 FEB			
(5) Const	ruction	Start						17 MAR			
(6) Const	ruction	Completion						18 SEP			
* Indicat which i cost an	es compl s compar d execut	letion of Projec rable to traditi rability.	t De lonal	finitic 35% de	on with P esign to	aram ensu	etric Cost Es re valid scop	timate e,			
b. Equipmer	it associ	iated with this	proj	ect pro	ovided fr	om o	ther appropri	ations:			
EQUIPMEN	FISCAL YEAR PROCURING APPROPRIATED EQUIPMENT NOMENCLATURE APPROPRIATION OR REQUESTED										
EQUIP FROM OTHE APPROPRIATIONS 3400 2018								70			

1. COMPONENT	F	FY 2017 MILITARY CONSTRUCTION PROGRAM 2. DATE (YYYMMDD)								E (YYYMMDD) 20150911	
3 INSTALLATION AND LOCATION				4 COM					5. AREA CONSTRUCTION		
									COS	TINDEX	
WASHINGTON				AIR MO	BILITY C	OMMAN	١D			1.05	
6. PERSONNEL	(1) F	ERMAN	ENT	(2)	STUDEN	ITS	(3) \$	SUPPOR	TED		
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL	
a. AS OF 30-Sep-15	349	2559	567	42	309	67	281	1785	530	6,489	
b. END FY 2021	349	2559	567	42	309	67	281	1785	530	6,489	
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE	5,823										
b. INVENTORY TOTAL AS OF	30-Sep-	15								3,874,001	
c. AUTHORIZATION NOT YET IN IN	IVENTO	RY								43,150	
d. AUTHORIZATION REQUESTED	IN THIS	PROGR	AM (FY	2017)						27,000	
e. PLANNED IN NEXT FOUR PROG	GRAM YE	EARS (F	Y 2018-2	2021)						0	
f. REMAINING DEFICIENCY										0	
g. GRAND TOTAL										3,944,151	
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY)	2017)								
	CAT	EGORY						CC	DST	DESIGN STATUS	
CODE PRO.	JECT TI	<u>rle</u>				<u>SCO</u>	<u>OPE</u>	<u>(\$0</u>	<u>)00)</u>	START COMPLETE	
721-313 Pipeline Dorm USAF SERE	E School					7,560	SM	27,	000	Design Build	
							TOTAL	27	000		
				EV 2010	EV 202	()	TOTAL	21,	000		
3. FOTORE PROJECTS IN NEXT FO		GRAWI	LANS	112010	-1 1 2021)					
				FUTI	JRE PRO	JECTS	TOTAL		0		
									•		
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	13	3.0		
10. MISSION OR MAJOR FUNCTION	, IS						-		-		
Fairchild is home to a wide variety of u	nits and r	nissions.	. Most pi	rominent	is its air i	refueling	mission	, with two	o wings, o	one active, the 92nd Air	
Refueling Wing, and one Air National G	Guard, the	e 141st A	RW. Ot	her units	here inc	ude the	Air Force	e Surviva	al, Evasio	n, Resistance and Escape	
school, medical detachments, a weapo	ns squad	dron and	the Join	t Personi	nel Reco	very Age	ency.				
11. OUTSTANDING POLLUTION AN	D SAFE	TY DEFI	CIENCIE	ES (FY 2)	017 - FY	2021)					
a. Air Pollution								(C		
b. Water Pollution								(С		
c. Occupational Safety and Heal	th							(С		
d. Other Environmental								(C		
							TOTAL		0		
DD Form 1390, JUL 1999		PR		DITION IS	OBSOLE	TE.					
1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DAT	2. DATE					
------------------	--	----------------------	-------------	----------------	-------------	--------------	----------------------	--	--	--	
AIR FORCE		(c	d)								
3. INSTALLATION	, SITE	AND LOCATION		4. PF	OJECT TITLE		I				
FAIRCHILD AIR F	ORCE E	BASE		SERE	PIPELINE DO	RMITORY (150	RM)				
FAIRCHILD AIR F	ORCE E	BASE SITE # 1									
WASHINGTON											
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)				
85976		721-313	2055/	GJKZ0	40009		27,000				
		9. C	OST ESTIMA	TES		-					
						UNIT	COST				
		ITEM		U/M	QUANTITY		(\$000)				
PRIMARY FACILIT	ES						19,049				
DORM AM PP/PCS	-STD (300 PN)		SM	7,560	2,478	(18,735)				
SUSTAINABILITY	& ENE	RGY MEASURES		LS			(314)				
SUPPORTING FACIN	LITIES						4,776				
UTILITIES				LS			(952)				
SITE IMPROVEMEN	TS			LS			(601)				
PAVEMENTS				LS			(1,602)				
COMMUNICATIONS				LS			(1,571)				
CONNECTION CHAI	RGE TO	UTILITY PROVIDER		LS			(50)				
SUBTOTAL							23,825				
CONTINGENCY	(5.0%)					1,191				
TOTAL CONTRACT (COST						25,016				
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				1,426				
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	SUBTOTAL)				953				
TOTAL REQUEST							27,395				
TOTAL REQUEST (F	ROUNDE	D)					27,000)				
EQUIPMENT FROM (THER	APPROPRIATIONS (NON-	ADD)				(2,392				
10. Descripti	on of	Proposed Construc	ction: Pro	ovide	150 room,	300 bed, 1	pipeline				
training stude	nt do	ormitory. Facility	y will have	e rei	nforced co	ncrete fou	ndations/				
slabs, steel f	rame,	brick veneer exte	erior wall:	s, an	d standing	seam metal	l roof,				
complete with	A/C s	system, parking, wa	alkways, la	aundr	y, storage	, and comm	unications.				
Facilities wil	L be	designed as perman	nent consti	ructi	on in acco	Poquimemon	n the DoD				
1-200-02. High	Derf	Criteria (UFC) 1-2	inable Bui	lding	Requireme	nts This	project				
will comply wi	th Do	D antiterrorism/fo	orce prote	ction	requireme	nts per UF	C 4-010-01.				
Air Conditioni	ng:	200 Tons	-		-	-					
11. Requiremen	t: 75	60 SM Adequates	: 0 SM :	Subst	andard: 40	75 SM					
PROJECT: Cons	truct	: a SERE Pipeline I	Dormitory,	(150	Room) (Cu	rrent Miss	ion)				
REQUIREMENT:	Provi	de a dormitory fac	cility to 1	house	300 Survi	val, Evasio	on,				
Resistance, an	d Esc	ape (SERE) trainin	ng student:	s in	accordance	with AFI	32-6005; the				
USAF Unaccompa	nied	Housing Design Gui	ide, Janua	ry 20	06; AFMAN	32-1084, Fa	acility				
Requirements;	Requirements; and the 2011 Fairchild AFB Dormitory Master Plan (DMP).										
CURRENT SITUAT	URRENT SITUATION: The USAF SERE School has insufficient on-base housing for										
Pipeline stude	1peline students. In order to meet requirements for housing pipeline airmen,										
dormitory	ARW C	converted 256 rooms	s or a 436	-room	Survival	Inn into a	pipeline Training				
(SST - 6 month	le uor ls) an	d NPS airmen atter	nding the (9 3ED 9 3ED	U IKS SERE	(SST stude	ts populate				
this dorm duri	this dorm during tech training, and then remain for 3-vr coded 1st duty										
TOPM 1391		9 Breviou	a editiona				Page No				
LOUND TOTAL	200 9	- FIEVIOU	P CATCIONS	are	opporere.		Lage no.				

1. COMPONENT

AIR FORCE

(computer generated)

4. PROJECT TITLE SERE PIPELINE DORMITORY (150 RM)

FAIRCHILD AIR FORCE BASE FAIRCHILD AIR FORCE BASE SITE # 1

3. INSTALLATION, SITE AND LOCATION

WASHINGTON			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
85976	721-313	2055/GJKZ040009	27,000

station). Currently there is a waiver to house three students per room that is only sized for single occupancy.

IMPACT IF NOT PROVIDED: There will continue to be an insufficient number of living quarters for the students attending SERE courses. Pipeline students will be forced to billet in a facility that was not intended to be used as a dormitory. Students will continue to be housed in rooms that do not meet Air Force minimum standards. Students will continue to be exposed to greater risk by being housed in violation of Air Force standards. Survival Inn routinely runs over 100% occupancy and during peak training times could reach more than 160% occupancy. Use of other lodging options are not feasible due to transportation requirements and irregular course hours. Chief of Air Force Lodging, HQ AFSVA/SVOHL, approved double occupancy waiver and 2 AF approved triple bunking waiver to help ease demand. Additional waiver houses female SST students in lodging due to space constraints. Storage is inadequate so temporary storage solutions incur additional costs.

ADDITIONAL: Project meets the criteria/scope specified in the Air Force standards for Pipeline student configuration. The project is based on a deficit identified in the current dormitory master plan. An economic analysis of reasonable options was prepared comparing alternatives of status quo, renovation, addition/alteration, and new construction. New construction was the most effective means of providing adequate housing for the SERE students. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in block 9 under supporting facilities as, "Connection charge to Utility Provider". Base Civil Engineer: Comm: (509) 247-2291. Pipeline Dorm: 7,560 SM = 81,375 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 2017 MILITARY C	ONSTR	JCTION PROJEC	CT DATA	2. DATE
AIR FORCE		(comput	er gei	nerated)		
3. INSTALLATIO	N AND L	OCATION		4. PROJECT	TITLE	
FAIRCHILD AIR	FORCE E	BASE BASE STTE # 1		SERE PIPELI	NE DORMITORY (1	50 RM)
WASHINGTON	101102 2					
5. PROGRAM ELE	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CO	OST (\$000)
85976		721-313	205	5/GJKZ040009	27	,000
12. SUPPLEMEN	TAL DAT	A:				
a. Estimated	l Design	n Data:				
(1) Projec	t to be	accomplished by de	sign-	build proced	ures	
(2) Basis: (a) Sta (b) Who	andard o ere Des:	or Definitive Designing Was Most Recent	n - ly Use	ed -		NO
(3) All Ot	her Des	ign Costs	_			960
(4) Constr	ruction	Contract Award				17 FEB
(5) Constr	ruction	Start				17 MAR
(6) Constr	ruction	Completion				19 MAR
(7) Energy	Study/	Life-Cycle analysis	was/	will be perf	ormed	YES
EQUIPMENT	NOMENCI	PROC	CURING	FIS APPRC APP OR	CAL YEAR ROPRIATED REQUESTED	COST (\$000)
COMM EQUI	PMENT		308	0	2018	492
DORM FURN	ITURE		340	0	2018	1,900

	F١	Y 2017 I	MILITAR		STRUC	TION P	ROGRA	۹M	2. DAT	E (YYYMME	DD)
	l										
S. INSTALLATION AND LOCATION									5. ARE		JUTION
						JBAL SI	RIKE		003		
	(1)			(2)	STUDE	ITE	(2) (TED	1.02	
0. FERSONNEL										тс	TAL
a AS OF 30-Sep-15	371	2157	453	0	0	0	415	2218	725		6.339
b END EY 2021	359	2122	454	0	0	0	403	2178	726		6,242
7. INVENTORY DATA (\$000)	000	2122	101	Ű	Ũ	Ũ	100	2110	120		•,_ ·_
	6 833										
	30-Sen-	15									352 855
		RY									95,000
		PROGE		(2017)							5 550
			-V 2018	2011)							58 300
			1 2010	2021)							00,000
											511 705
9. GRAND TOTAL			(2017)								511,705
8. PROJECTS REQUESTED IN THIS			2017)					00	CT.	DECION	OTATUO
0005 000									151	DESIGN	ISTATUS
CODE PRO	JECT II	ILE				<u>scc</u>		<u>(\$0</u>	<u>00)</u>	SIARI	
141-915 Missile Transfer Facility						802	SM	5,5	50	06/15	09/16
										_	
							TOTAL	5,5	50	_	
9. FUTURE PROJECTS IN NEXT FO	our Pro	OGRAM	YEARS	(FY 2018	8-FY 202	1)					
141-185 Consolidated Helo/TRF O	ps/AMU	Alert Fac	ility			88,486	SM	58,	300		
				FUTI			τοται	58	300	-	
						02010	IUIAL	,			
	\$M)						τοται	1	1		
									• •		
Francis E Warren Air Force Base is	home to t	tha 90th	Miceilo \	Mina (M)	M) and H	oodauor	tore 201	th Air For	rce of Air	r Earce Glob	ol Striko
command. The mission of the 90th M	IW is to d	lefend Ai	merica w	/ith the w	orld's pr	eauquai emier co	mbat-re	adv Inter	ce of All	tal Ballistic N	lissile (ICBM)
force. The 90th MW operates 150 Mi	nuteman	III ICBM	s on full	alert and	d maintai	ns the m	issile fie	lds acros	s a 12.6	600-square-m	nile area in
Wyoming, Nebraska, and Colorado.	The wing	also ope	erates 9	UH-1N H	luey heli	copters t	hat perfe	orm nucle	ear conv	oy security a	nd missile site
support.											
11. OUTSTANDING POLLUTION A	ND SAFE	ETY DEF	ICIENCI	IES (FY 2	2017 - F	Y 2021)					
a. Air Pollution								()		
b. Water Pollution								()		
c. Occupational Safety and Hea	alth							()		
1											
d. Other Environmental								()		
							TOTAL	(0	-	
DD Form 1390. JUL 1999		PRI	EVIOUS E	DITION IS	S OBSOLE	TE.					

1. COMPONENT			FY 2017 MIL	ITARY CONSTRU	CTION	PROJECT DA	2. DATE				
AIR FORCE		(computer generated)									
3. INSTALLATION	, SITH	E AN	D LOCATION		4. PF	OJECT TITL	2				
FRANCIS E WARRE	N AIR	FOR	CE BASE		MISSI	LE TRANSFER	R FACILITY				
F E WARREN AFB	SITE \$	# 1									
WYOMING											
5. PROGRAM ELEM	ENT	6.	CATEGORY CODE	7. RPSUID/PI	ROJECI	NUMBER	8. PROJECT	COST (\$000)			
27576			141-915	1833/0	HLN08	3004		5,550			
			9.	COST ESTIMA	TES	1					
			ITEM		U/M	QUANTITY	UNIT	COST (\$000)			
PRIMARY FACILITI	ES							4,079			
CONSTRUCT NEW 1	IISSII	LE TH	RANSFER FAC		SM	802	4,986	(3,999)			
SUSTAINABILITY	AND E	INERC	GY MEASURES		LS			(80)			
SUPPORTING FACIL	ITIES							920			
DEMOLISH EXIST	ING FA	CILI	ITY		SM	452	288	(130)			
SITE IMPROVEMEN	NTS				LS			(125)			
PAVEMENTS					LS			(150)			
UTILITIES					LS			(395)			
PASSIVE FORCE I	ROTEC	TIO	N MEASURES		LS			(70)			
CONNECTION CHAP	RGE TO) UTI	ILITY PROVIDER		LS			(50)			
SUBTOTAL								4,999			
CONTINGENCY	(5	. 0%)						250			
TOTAL CONTRACT C	'ОST	,						5,249			
SUDEDVISION INS	.001 .00777	ON 7	ND OVERHEAD	(5.7%)				299			
TOTAL REQUEST	FECIL		ND OVERHERD	(3.70)				5 548			
TOTAL REQUEST		ותי						5,540			
FOULDMENT EDOM	TUPD	ע, מססב		N – A D D)				5,550			
LO Deceminti			operations (No	N-ADD)		will cone		(50.0)			
facility with		iat.	ed site work.	pavement a	nd ut.	ilities.	Scope will	include			
maintenance/mi	ssile	st	age transfer-	work bays, a	admin	istrative,	tool stora	age, and			
restroom facil	ities	, u	pgrade paveme	nt, interio	r ligi	hting, hea	ting, venti	ilation, and			
security fenci:	ng to	ex	tend the serv	iceability f	Eor M	inuteman 1	II (MMIII)				
Intercontinent	al Ba	11i;	stic Missile	(ICBM) Miss:	ile H	andling Te	am/Missile	Life			
Extension (MHT	/MLE)	ha	ndling operat	ions. Const	truct	ion to inc	lude concre	ete block			
with a standing	g sea	m m	etal roof, HV.	AC, and elec	ctric	al distrik	oution and w	vill be			
architectural	acco detand	lard	nce with Air . s Facilities	will be dea	i Gui	de criteri d as perma	a, installa	action in			
accordance wit	h the		D Unified Fac	ilities Crit	teria	(UFC) 1-2	200-01, Gene	eral			
Building Requi	remen	ts a	and UFC 1-200	-02, High Pe	erfor	mance and	Sustainable	e Building			
Requirements.	This	pr	oject will co	mply with Do	oD an	titerroris	m/force pro	otection			
requirements p	er UF	'C 4	-010-01. Con	struction w:	ill m	eet requir	rements for	essential			
facility system	m nuc	lea	r design cert	ification.							
Air Conditioni	ng:	50	Tons								
11. Requiremen	t: 80	2 SI	M Adequate	: 0 SM S1	ubsta	ndard: 452	SM				
PROJECT: MISS	PROJECT: MISSILE TRANSFER FACILITY (Current Mission)										
REQUIREMENT:	An ad	lequa	ately sized a	nd configure	ed Mi	ssile Oper	ations Tran	nsfer			
Facility to pro	ovide	pro	oper processi:	ng of missi: ocessing for	le bo	oster down	stages which	ch may			
LEGUTTE CEMPOL	ary S	COL	age during pro	ccessing 10		Puerre, mai	incenance, (

1. COMPONENT AIR FORCE FY 2017 MILITARY CONSTRUCTION PROJECT DATA

(computer generated)

3. INSTALLATION, SITE AND LOCATION FRANCIS E WARREN AIR FORCE BASE F E WARREN AFB SITE # 1 WYOMING 4. PROJECT TITLE MISSILE TRANSFER FACILITY

WYOMING			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27576	141-915	1833/GHLN083004	5,550

reciprocal installation at a missile launch facility.

CURRENT SITUATION: F. E. Warren supports the Missile Alert and Launch Facilities for 150 MMIII sites in three states. The existing facility is used to process missile booster downstages for shipment, maintenance or installation at a missile site and transfer missile booster sections between silo extraction vehicles to secure shipment vehicles used to transport booster sections for Depot level maintenance and/or test sites. Current facility is a 51 year old Cold-War asset that is beyond its economic life expectancy and cannot accommodate simultaneous in/out operations due to a single drive lane which is too narrow to accommodate side by side missile transport vehicles. There is no command and control center, office or locker space, and limited amounts of storage for required tools and equipment. Heating, ventilation, and utility systems are antiquated and frequently break down. Parts for these systems are scarce and difficult to procure. There is no fire suppression system which presents a fire hazard when portable heaters are needed to supplement the heating system to maintain a working temperature. These portable units also cause ventilation problems requiring exterior doors to be There are problems with falling insulation, roof leaks and an outdated opened. electrical system. A functional missile transfer facility is required to execute approximately 350 missile booster transfer operations per year.

IMPACT IF NOT PROVIDED: If this project is not provided continued safety and work efficiency of this critical Nuclear Sustainment Enterprise (NSE) mission will negatively impact the mission. Failure to replace this facility will result in continued mission constraint and further degradation the NSE Nuclear Assurance and Security responsibility mission. The Air Force has stated Nuclear Assurance and Security are our primary responsibility to include safety and security of our nuclear arsenal, as well as maintenance, storage, and transport of nuclear assets. ADDITIONAL: This project exceeds scope/criteria for Missile Operations Facilities as established by Air Force Manual 32-1084. The size identified is larger to accommodate larger transport vehicles currently in use and provide increased space necessary to alleviate safety discrepancies and work around conditions required for mission operation. The new facility configuration allows simultaneous inbound and outbound missile transfer operations and a mock up area for training/certification without interrupting transfer operations. An Economic Analysis (EA) was performed. The EA evaluated reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements: New Construction. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in block 9 under supporting facilities as, "Connection charge to Utility Provider". Base Civil Engineer: Commercial (307) 773-3600. MISSILE TRANSFER FACILITY, 802 SM = 8624 SF. Demolition: 452 SM = 4,864 SF.

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

1. COMPONENT AIR FORCE		FY 2017 MILITA	RY CO	ONSTRUC	TION PROJEC	CT DATA	2.	. DATE		
3. INSTALLATI FRANCIS E WAR F E WARREN AF WYOMING	ON AND I REN AIR B SITE ‡	OCATION FORCE BASE ‡ 1			4. PROJEC: MISSILE TI	F TITLE RANSFER FACILI	TY			
5. PROGRAM EL	EMENT	6. CATEGORY C	CODE	7. PRO	JECT NUMBER	R 8. PROJECT	COST	(\$000)		
27576		141-915		1833/	GHLN083004	5	,550			
12. SUPPLEMEN	TAL DAT	A:								
a. Estimate	d Design	n Data:								
(1) Statu	IS:	()				_				
(a) Da (b) Pa	ite Desig	gn Started 7 Cost Estimate	g 1196	d to de	velop cost	- -	-8-JU	N-15 VEC		
(D) Fa	rcent C	omplete as of 0	S USE	1 2016	everop cost	.5		15%		
(C) Fe	te 35% 1	Designed	LOW	2010		-	0-FE	но ю В-16		
(e) Da	te Desig	gn Complete				()8-SE	P-16		
(f) Er	ergy St	udy/Life-Cycle	analy	vsis was	s/will be p	erformed		YES		
 (2) Basis: (a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used - 										
(2) Total	Cost (\mathbf{z} = (\mathbf{z}) + (\mathbf{b})	om (d				(8	000)		
(3) TOTAL (a) Pr	cost (d	C) = (a) + (b) = 0	or (d Speci	ficatio			(\$	333		
(b) Al	1 Other	Design Costs	opeci	LICACIO	511B			167		
(c) To	tal	j						500		
(d) Co	ntract							416		
(e) In	-house							83		
(4) Const	ruction	Contract Award					17	MAR		
(5) Const	ruction	Start					17	APR		
(6) Const	ruction	Completion					19	SEP		
* Indicat which i cost an	es compi s compan d execut	letion of Proje rable to tradit tability.	ct De ional	finitic . 35% de	on with Par esign to en	ametric Cost H sure valid sco	lstim pe,	ate		
b. Equipmer	nt assoc:	iated with this	proj	ject pro	ovided from	n other approp	riati	ons:		
EQUIPMEN	I NOMENC	LATURE	PI APP	ROCURIN ROPRIAI	FIS G APP SION OR	SCAL YEAR ROPRIATED REQUESTED		COST (\$000)		
FURNITUR	E, FIXTU	RES, EQUIPMENT		3400		2018		56		

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1. COMPONENT	F١	Y 2017 N	E (YYYMMD	D)								
AIR FORCE	•	. 2011 1								20150911		
3. INSTALLATION AND LOCATION				4. CON	IMAND				5. ARE	. AREA CONSTRUCTION		
ROYAL AUSTRALIAN AIR FORCE DA	RWIN			PACIFI	C AIR FC	RCES			cos			
AUSTRALIA										1.49		
6. PERSONNEL	(1) P	PERMANE	ENT	(2)	STUDEN	ITS	(3) 5	SUPPOR	TED	тс	TAL	
10.05	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN			
a. AS OF 30-Sep-15	N/A	Se	e Note	1	-			-			0	
	N/A										0	
2. TOTAL ACREACE	0											
	0 30 Son	15									0	
		DV									0	
			M /EV	2017)							30,400	
			(17) (2010	2017) EV 202	1)						35,400	
f REMAINING DEFICIENCY			2010-	FT 202)						35,000	
a GRAND TOTAL											65 400	
8 PRO JECTS REQUESTED IN THIS	PROCR	AM /EV 2	017)								03,400	
			017)					00	ST	DESIGN	STATUS	
CODE PRO	ЈЕСТ ТП	TLE				sco	OPE	(\$0	00)	START	COMPLETE	
113-321 APR - Expand Parking Apr	on					37.974	SM	28.	600	06/15	09/16	
218-712 APR - Aircraft MX Support	Facility					557	SM	, 1.8	300	06/15	09/16	
							C.I.I.	.,.		00/10	00,10	
9. FUTURE PROJECTS IN NEXT FO 411-135 APR - Bulk Fuel Storage Ta	UR PRO anks	GRAM Y	EARS (FY 2018	? - FY 202	2 <i>1)</i> 15,899	CF	35,	000			
							TOTAL	35,	000			
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL		0			
10. MISSION OR MAJOR FUNCTION	IS											
The USAF proposes to improve an exis maintenance support facility to increase RAAF Darwin.	sting airp e mil-to-n	ort by exp nil cooper	anding ation be	the park etween L	ing apror IS-AUS v	n, adding ia combi	bulk fue ned milit	el storage ary exerc	e tanks, a cise/limite	nd building a ed USAF pre	an aircraft sence at	
Note 1: No personnel will be permanen	tly assigr	ned to this	s locatio	n.								
11. OUTSTANDING POLLUTION AN	D SAFE	TY DEFIC		S (FY 2	017 - FY	2021)						
a. Air Pollution								(0			
b. Water Pollution								(0			
c. Occupational Safety and Heal	th							(0			
d. Other Environmental								()			
							TOTAL	(0			

DD Form 1390, JUL 1999

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT		FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE									
AIR FORCE	(computer generated)										
3. INSTALLATION	, SIT	E AND LOCATION		4. PH	ROJECT TITL	Ξ					
RAAF BASE DARWI	N			APR A	IRCRAFT MAI	INTENANCE SUP	PORT FACILITY				
AUSTRALIA											
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PI	ROJECI	NUMBER	8. PROJECT	COST (\$000)				
27576		218-712	/PA	F1505	00		1,800				
		9.	COST ESTIMA	TES							
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)				
PRIMARY FACILITY	r						879				
AIRCRAFT MAINT	ENANCI	E SUPPORT FACILITY		SM	557	1,548	(862)				
SUSTAINMENT AN	D ENER	RGY MEASURES		LS			(17)				
SUPPORTING FACIN	LITIES	5					751				
SITE IMPROVEME	NTS			LS			(50)				
PAVEMENT				SM	1,780	205	(365)				
UTILITIES				LS			(107)				
COMMUNICATION				LS			(79)				
ENVIRONMENTAL	REMED	LATION		LS			(150)				
SUBTOTAL							1,630				
CONTINGENCY	(5	5.0%)					82				
TOTAL CONTRACT (COST						1,712				
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				111				
TOTAL REQUEST							1,823				
TOTAL REQUEST (1	ROUNDE	1D)				1,800					
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON	I-ADD)				(10.0)				

10. Description of Proposed Construction: Construct an aircraft maintenance support facility using conventional design and construction methods to accommodate the mission of the facility. Work includes, but is not limited to construction of a slab-on-grade concrete foundation, pre-engineered steel frame, concrete masonry unit walls, and corrugated metal roof. The building will include electrical outlets; lighting fixtures; panel boards; plumbing with energy and water efficient fixtures; heat detection system; fire sprinkler system; communication systems; and all necessary utility connections to base infrastructure. Supporting facilities include a concrete apron to maneuver and stage AGE, asphalt access drive for emergency vehicles, water supply, sanitary sewer to include 2,000 gal septic tank, electrical distribution, communications, mechanical ventilation, and storm drainage. The project also includes possible environmental remediation of buried asbestos caused by past cyclone events. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 0 Tons

11. Requirement: 557 SM Adequate: 0 SM Substandard: 0 SM

1. COMPONENT		FY 2017 MILI	TARY CONSTRU	JCTION PROJECT DA	TA	2. DATE					
AIR FORCE		(computer generated)									
3. INSTALLATION	, SITI	E AND LOCATION		4. PROJECT TITL	E						
RAAF BASE DARWI	N			APR AIRCRAFT MAT	INTENANCE SUPPO	RT FACILITY					
AUSTRALIA											
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000)											
27576		218-712	/ PA	F150500	1,	800					
PROJECT: Cons REQUIREMENT: sized and conf maintenance op	truct This igure erati	an aircraft mair Asia-Pacific Resi d maintenance fac ons of up to eigh	ntenance su liency (AP cility requ nt aircraft	pport facility. R) project prov ired to support . The building	. (New Missio vides an adequ flight line is required t	on). Mately					
pre-deployed a as a hub for f	erosp light	pace-ground equipm line aircraft mai	nent (AGE) (Intenance d	during inactive uring exercises	e periods and . Deployed ai	to serve ircraft Mobile					
Readiness Spar	es Pa	ckage (MRSP). The	facility	will provide ad	lverse weather	C					
protection for	main	tenance personnel	, equipmen	t, and aircraft	spares. Desi	ign					
requirements c	onfor	m with AFM 32-108	34 (20 Apri	1 2012) and UFC	2 4- 440-01a,	Storage					

requirements conform with AFM 32-1084 (20 April 2012) and UFC 4- 440-01a, Storage Depots (01 March 2005). The maintenance support facility includes a high bay open storage area and 2 restrooms for a total of 557 SM (6,000 SF).

CURRENT SITUATION: There are no available facilities at RAAF Base Darwin that can be used to support the maintenance and storage requirements of USAF AGE and maintenance equipment to support deployed eight aircraft during bilateral training exercises.

IMPACT IF NOT PROVIDED: If this project is not provided, the AGE needed by deployed aircraft will not be available to support them. In addition, the deployed aircraft maintenance personnel will not have a location from which to base their operations and set up their tool kits and MRSPs. Without the maintenance facility, equipment, aircraft spares, and personnel will lack the protection needed from potentially severe weather. Lack of this facility would significantly reduce readiness, and could result in degradation of operational capability, and may increase potential for a serious mishap. Therefore, the location will not have the capability to fully meet bilateral training exercise mission requirements.

ADDITIONAL: This project meets the criteria/scope specified in AFMAN 32-1084, "Facility Requirements." Since the project cost is less than \$2M, an Economic Analysis is not required for this project. The initial cost estimate for this project is within DoD Pricing Guide parameters modified to account for the higher area cost factor at Darwin, Northern Territory, Australia. Project Engineer: 808-448-2459. Aircraft Maintenance Support Facility 557 SM = 6,000 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: AUSI-DOLLAR 1.0264

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 2017 MILITAR	RY CO	NSTRUC	TION PRO	JECT	DATA	2. DATE		
3. INSTALLATI RAAF BASE DAR	ON AND I WIN	OCATION			4. PROJ	ECT 1 CRAF1 V	FITLE F MAINTENANCE	SUPPORT		
AUSTRALIA					FACIDIT	-				
5. PROGRAM EL	EMENT	6. CATEGORY CO	ODE	7. PRO	JECT NUM	BER	8. PROJECT CC	JECT COST (\$000)		
27576	1,	800								
12. SUPPLEMEN	TAL DATA	A:								
a. Estimate	d Design	n Data:								
(1) Statu	s:	<i>a</i>								
(a) Da	rametri	gn Started Cost Estimatos		d to de	wolon a	o a t a	05	-OCT-15		
(D) Fa	rcent C	omplete as of 01	.TAN	2016	everop co	JSLS		IES		
(C) Fe	te 35% 1	Designed	. OAN	2010						
(e) Da	te Desig	gn Complete					09	-SEP-16		
(f) Er	ergy St	udy/Life-Cycle a	naly	sis was	s/will be	e per	formed	YES		
(2) Basis	:									
(a) St	andard o	or Definitive De	sign	-				NO		
(D) WI	lere Desi	ign was most kec	enti	y Usea	-					
(3) Total	Cost (d	c) = (a) + (b) o	or (d) + (e)	:			(\$000)		
(a) Pr	oduction	n of Plans and S	speci	ficatio	ons			108		
(b) Al	l Other	Design Costs						54		
(c) To	otal							162		
(d) Co	ntract							135		
(e) Ir	i-nouse							27		
(4) Const	ruction	Contract Award						17 FEB		
(5) Const	ruction	Start						17 MAR		
(6) Const	ruction	Completion						18 JUN		
* Indicat which i cost an	es compi s compan d execut	letion of Projec rable to traditi tability.	t De: .onal	finitic 35% de	on with B esign to	Param ensu	etric Cost Es re valid scop	timate e,		
b. Equipmer	it assoc:	iated with this	proj	ect pro	ovided fr	rom c	ther appropri	ations:		
EQUIPMEN	I NOMENC	LATURE	PF APPI	ROCURIN	G 2 ION C	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED	COST (\$000)		
FURNISHI	NGS AND	COMM EQUIPMENT		3400		2	017	10		

1. COMPONENT		FY 2017 MIL]	TARY CONSTRU	CTION	PROJECT DA	TA	2. DATE
AIR FORCE			(computer ger	erate	d)		
3. INSTALLATION	, SIT	E AND LOCATION		4. PI	ROJECT TITLE	5	
RAAF BASE DARWI	N			APR	EXPAND AIRC	RAFT PARKING	APRON
AUSTRALIA							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT (COST (\$000)
27576		113-321	/PA	F1504	00	2	8,600
		9.	COST ESTIM	ATES			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITI	IES						24,506
APRON (CAT COD	E 113-	-321)		SM	37,974	570	(21,645)
FUEL SYSTEM UP	GRADES	G (CAT CODE 121-122))	EA	4	595,000	(2,380)
SUSTAINMENT AND	D ENER	RGY MEASURES		LS			(481)
SUPPORTING FACII	LITIES	1					1,167
UTILITIES				LS			(241)
SITE IMPROVEME	NTS			LS			(183)
STORM DRAINAGE				LS			(548)
COMMUNICATIONS				LS			(45)
ENVIRONMENTAL	REMEDI	IATION		LS			(150)
SUBTOTAL							25,673
CONTINGENCY	(5	5.0%)					1,284
TOTAL CONTRACT O	COST					-	26,956
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				1,752
TOTAL REQUEST						-	28,708
TOTAL REQUEST (F	ROUNDE	D)					28,600
10. Descripti	on of	Proposed Constru	uction: Con	nstru	ct aircraf	t parking an	oron

10. Description of Proposed Construction: Construct aircraft parking apron expansion, construct 4 Type III hydrant fuel pits, and relocated existing fuel isolation valve pits using 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. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 0 Tons

11. Requirement: 37974 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Expand aircraft parking apron and add refueling capacity. (New Mission). REQUIREMENT: This project will extend existing Bomber Replenishment Area (BRA) to add 4 additional parking spots with underground jet fuel hydrant system to support up to eight aircraft participating in bilateral training exercises at RAAF Base Darwin. Work includes construction of four additional airfield rated concrete paved parking spots with asphalt shoulders; installation of 4 additional Type III fuel hydrant pit connected to existing fuel line; and relocation of taxiway, apron

DD FORM 1391, DEC 99

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)								
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE RAAF BASE DARWIN APR EXPAND AIRCRAFT PARKING APRON AUSTRALIA AUSTRALIA										
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CC	OST (\$000)				
27576		113-321 /PAF150400 28,600								

and taxiway lights, stormwater system to include an Oil-Water separator, jet blast deflector, and construction of an asphalt access drive. This project includes possible remediation of buried asbestos contaminated materials from past cyclone events.

CURRENT SITUATION: The current aircraft parking apron at RAAF Base Darwin is constructed to accommodate C-130 aircraft and smaller sized bomber aircraft, and is incapable of parking and refueling the necessary eight aircraft simultaneously. As currently constructed, the apron can park and fuel 4 aircraft in accordance with Air Force standards, with very limited aircraft throughput. The present configuration will also not allow effective and safe taxi of more than 4 aircraft. This project will expand the parking apron to accommodate the required 8 aircraft. Expansion of the existing Bomber Replenishment Apron (BRA) apron is the only option to safely park and effectively refuel 8 aircraft.

IMPACT IF NOT PROVIDED: If this project is not provided, the Bomber Replenishment Apron will be incapable of parking and refueling eight aircraft critical in air-toair refueling of deployed aircraft attending bilateral exercises in Australia. The inability to provide air refueling capability drastically decreases power projection and global reach capabilities to support bilateral theater security operations and exercises in the Asia-Pacific region to include Australia.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirement, 20 April 2012. A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs; therefore, a complete economic analysis was not performed and a request for waiver has been submitted and approved. The initial cost estimate for this project is within DoD Pricing Guide parameters modified to account for the higher area cost factor at Darwin, Northern Territory, Australia. Project Engineer: 808-448-2459. Apron: 37,974 SM = 408,749SF.

FOREIGN CURRENCY: FCF Budget Rate Used: AUSI-DOLLAR 1.0264

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 2017 MILITARY CO	ONSTRUC	TION PROJECT	DATA	2. DATE					
AIR FORCE	RCE (computer generated)										
3. INSTALLATI	ON AND I	LOCATION		4. PROJECT 1	TITLE						
RAAF BASE DAR	WIN			APR EXPAND	AIRCRAFT PARK	ING APRON					
AUSTRALIA		I			I						
5. PROGRAM EL	5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJE										
27576		113-321	/P2	AF150400	28,	600					
12. SUPPLEMEN	TAL DAT	A:									
a. Estimate	d Design	n Data:									
(1) Statu	IS:										
(a) Da	te Desig	gn Started	_	_	30	-OCT-15					
(b) Pa	rametri	c Cost Estimates use	d to de	evelop costs		YES					
* (C) Pe	ercent Co	omplete as of 01 JAN	1 2016			10%					
* (d) Da	te 35% 1	Designed			29	-FEB-16					
(e) Da	te Desig	gn Complete			30	-SEP-16					
(f) Er	ergy Stu	udy/Life-Cycle analy	'sis was	s/will be per	formed	YES					
(2) Basis	:										
(a) St	andard o	or Definitive Design	ı —			NO					
(b) Wh	ere Des	ign Was Most Recentl	y Used	-							
(3) Total	Cost (c) = (a) + (b) or (d)) + (e)):		(\$000)					
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		1,716					
(b) Al	1 Other	Design Costs				858					
(c) To	otal	3				2,574					
(d) Co	ntract					2,145					
(e) In	-house					429					
(4) Const	ruction	Contract Award				17 FEB					
(5) Const	ruction	Start				17 MAR					
(6) Const	ruction	Completion				19 JUN					
* Indicat which i cost an	es comp s compan d execut	letion of Project De rable to traditional tability.	finitic . 35% de	on with Param esign to ensu	etric Cost Es re valid scop	timate e,					
b. Equipmer N/A	it assoc:	iated with this proj	ect pro	ovided from o	ther appropri	ations:					

1. COMPONENT	E	EX 2017 MILITARY CONSTRUCTION PROGRAM 2. DATE (YYYMMDD)										
AIR FORCE	Г		201509	11								
3. INSTALLATION AND LOCATION			4. CON	IMAND				5. ARE	AREA CONSTRUCTION			
(Unspecified)			PACIFI		RCES			COS				
COMMONWEALTH OF NORTHERN	MARIAN	IA ISLANDS		o /					2.42			
6. PERSONNEL	(1) F	PERMANENT	RMANENT (2) STUDENTS (3) SUPPORTE							τοται		
	OFFICER	ENLISTED CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN				
a. AS OF 30-Sep-15	N/A	See Note	1							0		
b. END FY 2021	N/A									0		
7. INVENIORY DATA (\$000)	0											
	0	4.5										
	30-Sep-	-15								0		
			(0017)							29,300		
a. AUTHORIZATION REQUESTED			2017)							9,000		
e. PLANNED IN NEXT FOUR PRO	GRAWI I	EARS (FY 2010-	-2021)							77,500		
										115 800		
9. GRAND TOTAL	PROCE	DAM (EV 2017)								115,800		
0. PROJECTS REQUESTED IN THIS							~~	т	DESIC			
		TIF			500	OPF	/@/		STADT			
011-146 APR - Land Acquisition C					17.5		<u>190</u>	00 <u>0</u>	06/15	00/16		
					17.5	AC	5,0	000	00/13	09/10		
						TOTAL	9,0	000	-			
9. FUTURE PROJECTS IN NEXT FO	UR PRO	OGRAM YEARS	(FY 201	8-FY 202	21)							
113-321 APR - Parking Apron Type	III Hydr	ant			32,308	SM	50,	000				
411-135 APR - Port POL System					15,900	SM	27,	500				
						TOTAL	77,	500	-			
R&M UNFUNDED REQUIREMENT (\$	6M)					TOTAL		0				
10. MISSION OR MAJOR FUNCTION	NS											
The USAF proposes to improve infras	tructure	and military traini	ng facilit	ies in suj	oport of A	Air Opera	ations for	r divert, t	raining exer	cise, and		
natural disaster response in the Comm	nonwear	In or Northern Ma	anana isi	ands.								
Note 1: No personnel will be permane	ntly assi	gned to this locat	ion.									
					(
	ND SAFE		ES (FY)	2017 - F	r 2021)			2				
a. Air Pollution							(J				
h Water Belly tier								h				
p. water Pollution							(J				
c. Occupational Safety and Has	lth						,	า				
c. Occupational Salety and Hea							(J				
d Other Environmental								า				
							,					
						τοται		0	.			
						. UTAL		-				

PREVIOUS EDITION IS OBSOLETE.

							-
1. COMPONENT		FY 2017 MILI	TARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE
AIR FORCE		(computer gen	erate	d)		
3. INSTALLATION,	SIT	E AND LOCATION		4. PF	ROJECT TITL	2	
UNSPECIFIED LOCA	TION			APR I	LAND ACQUISI	ITION	
			_				
COMMONWEALTH OF	NORTI	HERN MARIANA ISLAND:	s				
5. PROGRAM ELEM	INT	6. CATEGORY CODE	7. RPSUID/PR	OJECI	NUMBER	8. PROJECT	COST (\$000)
27576		911-146	/PAI	F1603	00		9,000
		9.	COST ESTIMA	TES			
						UNIT	COST
		ITEM		U/M	QUANTITY		(\$000)
PRIMARY FACILITI	ES						8,050
LAND ACQUISITIC	N			на	7.1	1,135,000	(8,050)
SUPPORTING FACIL	ITIES						0
SUBTOTAL							8,050
CONTINGENCY	(5	5.0%)					403
TOTAL CONTRACT C	OST						8,453
SUPERVISION, INS	PECTI	ON AND OVERHEAD	(6.5%)				549
TOTAL REQUEST							9,002
TOTAL REQUEST (R	OUNDE	D)					9,000
10. Descriptio	on of	Proposed Constru	action: Aco	uire	s approxim	atelv 7.1 h	ectares of
land (in fee or	lon	g-term lease) for	the constr	ucti	on of Air	Force milit	ary
training facili	ties	and infrastructu	re in suppo	ort o	f Air Oper	ations for	divert,
training exerci	ses,	and natural disa	aster respon	se.	Non-conti	guous land	parcels are
to be acquired	from	the Commonwealth	n of Norther	n Ma	riana Isla	nds (CNMI)	through the
Commonwealth Po	ort A	uthority.					
Air Conditionin	ng:	0 Tons					
11. Requirement	: Н	A Adequate: H	IA Substa	ndar	d: HA		
PROJECT: Asia	-Paci	fic Resiliency (A	APR) Land Ac	quis	ition (New	Mission).	
REQUIREMENT: 7	The A	ir Force will acq	quire land e	ithe	r in fee c	or by long t	erm lease
for the constru	ictio	n of Air Force mi	litary trai	ning	facilitie	s and infra	structure
in support of A	Air O	perations for div	vert, traini	ng e	xercise, a	nd natural	disaster
approximately 4	: CNM	5 000 per bestare	for a long	quir -tor	ed Iand In m lease (i	n evcess of	25 years)
versus \$450.000) ner	bectare to acqui	re by fee	The	Air Force	is prepare	d to lease
the property at	a h	igher cost in ord	ler to confo	orm t	o the poli	cv stated i	n the 1976
Covenant betwee	en CN	MI and the United	l States to	acqu	ire only t	he minimum	real
property intere	est n	ecessary to meet	the mission	. req	uirement,	which in th	is case is
a lease. Howev	ver,	the Air Force is	willing to	purc	hase by fe	e if the CN	мі
government is w	<i>i</i> lli	ng to sell it.					
CURRENT SITUAT	ION:	The Air Force is	evaluating	sev	eral optic	ons for the	Divert and
Exercise Missic	on wi	thin the CNMI. F	Regardless c	of wh	ich option	is selecte	d as the
final option, e	exist	ing federally lea	ased land in	CNM	I does not	include la	nd parcels
required for fa	cili	ties and infrastr	ucture supp	orti	ng constru	ction and o	perational
requirements in	1 con	nection with the	Divert and	Exer	cise Missi	on within t	he CNMI.
Therefore, acqu	usit	ion of non-Federa	u⊥ ⊥and in f	ee o	r by long	term lease	is required

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 4. PROJECT TITLE 3. INSTALLATION, SITE AND LOCATION UNSPECIFIED LOCATION APR LAND ACQUISITION COMMONWEALTH OF NORTHERN MARIANA ISLANDS 5. PROGRAM ELEMENT 8. PROJECT COST (\$000) 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 27576 911-146 /PAF160300 9,000 begin negotiations now and pursue a phased approach because land acquisition discussions could take 12 to 18 months to complete. IMPACT IF NOT PROVIDED: Without securing rights for the needed land parcels, none of the projects that support the Divert and Exercise Mission within CNMI can be constructed. Initial Air Operations capability cannot be achieved until these facilities are constructed, depriving the Air Force of this much-needed operational capability. HISTORY OF BASE BOUNDARY: N/A LONG TERM REAL ESTATE: Land acquisition estimated costs are based on a Navy real estate survey of comparable land parcels to obtain the most current market values. APR Land Acquisition: 7.1 Hectares = 17.5 Acres.

1. COMPONENT		FY 2017 MILITARY CO	ONSTRUC	TION PROJECT	DATA	2. DATE
AIR FORCE		(compute	er gene	rated)		
3. INSTALLATI	ON AND I	LOCATION		4. PROJECT	TITLE	
UNSPECIFIED L	OCATION			APR LAND AC	QUISITION	
COMMONWEALTH	OF NORTH	HERN MARIANA ISLANDS				
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)
27576		911-146	/ ₽/	AF160300	9,	500
a. Estimate	d Desig	n Data:				
(1) Statu	s:					
(a) Da	te Desig	gn Started				N/A
(b) Pa	rametri	c Cost Estimates use	d to de	evelop costs		N/A
* (c) Pe	ercent Co	omplete as of 01 JAN	1 2016			N/A
* (d) Da	te 35% 1	Designed				N/A
(e) Da	te Desig	gn Complete				N/A
(f) En	ergy St	udy/Life-Cycle analy	rsis was	s/will be per	formed	N/A
(2) Bagig	•					
(2) Dabib	andard (or Definitive Design				N / A
(a) St (b) Wh	ere Des	ign Was Most Recentl	y Used	-		N/A
(3) Total	Cost (c) = (a) + (b) or (d)) + (e)):		(\$000)
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		N/A
(b) Al	1 Other	Design Costs				N/A
(c) To	tal	-				N/A
(d) Co	ntract					N/A
(e) In	-house					N/A
(4) Const	ruction	Contract Award				17 FEB
(5) Const	ruction	Start				17 MAR
(6) Const	ruction	Completion				18 SEP
* Indicat which i cost an	es compi s compan d execut	letion of Project De rable to traditional tability.	finitio 35% de	on with Param esign to ensu	etric Cost Es re valid scop	timate e,
b. Equipmen N/A	it assoc:	iated with this proj	ect pro	ovided from c	ther appropri	ations:

	F١	(2017 I	MILITAF	RY CON	STRUC	TION P	ROGRA	M	2. DAT	E (YYYMMI	DD)
				4 . COM							
3. INSTALLATION AND LOCATION				4. COW					5. ARE		UCTION
						SAIRFO	JRCES	IN	003		
	(4) 5					ITC	(2) (TED	1.13	
0. PERSONNEL					STUDER					Т	OTAL
a AS OF 30-Sep-15	1284	5674	2624				137	1096	200		11 015
b END EY 2021	1193	5337	2605	0	0	0	139	1152	200		10.626
7. INVENTORY DATA (\$000)	1100	0001	2000	Ū	Ū	Ū	100	1102	200		10,020
a. TOTAL ACREAGE	5.061										
b. INVENTORY TOTAL AS OF	30-Sep-	15									8.394.658
c. AUTHORIZATION NOT YET IN II		DRY									135.400
d. AUTHORIZATION REQUESTED	IN THIS	PROGE	RAM (F)	(2017)							13.438
e. PLANNED IN NEXT FOUR PROC	GRAM Y	EARS (=Y 2018	- 2021)							21,600
f. REMAINING DEFICIENCY		- (- /							770,400
g. GRAND TOTAL											9,335,496
8. PROJECTS REQUESTED IN THIS	PROGR	RAM (FY	2017)								, ,
CATEGORY								co	ST	DESIG	N STATUS
CODE PRO.	JECT TI	<u>TLE</u>				<u>sco</u>	<u>DPE</u>	<u>(\$0</u>	<u>00)</u>	<u>START</u>	COMPLETE
141-753 37 AS Squadron Operation	ns/AMU					3,561	SM	13,	438	10/15	03/17
9. FUTURE PROJECTS IN NEXT FO 211-159 C-130J Corrosion Ctrl. Hgr	UR PR(/Washra	DGRAM ack	YEARS	(FY 2018	8 - FY 20	92 <i>1)</i> 4,850	TOTAL SM TOTAL	13 , 21, 21 ,	438 600 600		
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	83	8.5		
10. MISSION OR MAJOR FUNCTION	, NS										
Home of the 86th Airlift Wing, Headqua Ramstein AB is the central airlift hub for maintenance of airlift assets composed Middle East.	arters US or strateg d of C-13	S Air For gic and t 30s for ta	ces in E actical a actical ai	urope, 3r irlift within rlift, a C-4	d AF, 17 n the Eu 40, C-20	th AF, as ropean th s & C-21	s well as heater. s for D\	the NAT The wing / airlift th	ſO Head ∣'s missic roughou	quarters Air on is the ope t Europe, Ai	North. eration and frica, and the
11. OUTSTANDING POLLUTION AN	D SAFE	TY DEF	ICIENCI	ES (FY 2	2017 - 20)21)					
a. Air Pollution								()		
b. Water Pollution								()		
c. Occupational Safety and Hea	lth							()		
d. Other Environmental								()		
							τοται)		
DD Form 1300 IIII 1999			PREVIO				TOTAL				

1. COMPONENT		FY 2017 MILI	TARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE		
AIR FORCE		(computer generated)							
3. INSTALLATION RAMSTEIN AIR BA RAMSTEIN AIR BA GERMANY	, SITI SE SE SI	E AND LOCATION		4. PF CONSI FACII	ROJECT TITLI RUCT AIRCRA	e Aft squadron (DPERATIONS/AMU		
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PH	ROJECI	NUMBER	8. PROJECT (COST (\$000)		
27576		141-753	3206/1	YFR01	.3010	1	3,437		
		9.	COST ESTIMA	TES	1				
		ТТЕМ		U/M	OUANTITY	UNIT	COST		
					2		(\$000)		
AIRCRAFT SQUADRO	ON OPE	RATIONS FACILITY					10,279		
SQ OPS FACILIT	Y (141	-753)		SM	3,561	2,830	(10,078)		
SUSTAINABILITY	AND B	NERGY MEASURES (2%))	LS			(202)		
SUPPORTING FACIL	LITIES						1,738		
UTILITIES				LS			(324)		
PAVEMENTS				LS			(217)		
ENVIRONMENTAL	SUPPOF	2T		LS			(40)		
EXTERIOR COMMU	NICATI	ON SUPPORT		LS			(240)		
DEMOLITION				SM	1,762	400	(705)		
SITE DEVELOPME	NT			LS			(212)		
SUBTOTAL							12,017		
CONTINGENCY	(5	.0%)					601		
TOTAL CONTRACT (COST					-	12,618		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				820		
TOTAL REQUEST						-	13,438		
TOTAL REQUEST (ROUNDE	D)					13,437		
EQUIPMENT FROM (THER	APPROPRIATIONS (NON	I-ADD)				(771.0)		
10. Descripti	on of	Proposed Constru	action: Sco	pe i	s for the	construction	n of all		
necessary prim	ary a	nd supporting fac	cilities whi	ich w	ill result	in a fully			
operational sq	uadro	n operations/airo	craft mainte	enanc	e facility	for tactica	al		
transport airc	raft.	A two-story str	ructure with	ı rei	nforced co	oncrete found	dation and		
floor slabs, m	asonr	y walls and roof	system. Pi	covid	es space f	or offices,	briefing		
for classified	open	storage Scope	also inclu	les d	rage/issue	of building	ner areas 2019 ه		
2511, site dev	elopn	ent & environment	also includ	for	site remed	liation, fire	9 9		
suppression, c	ommun	ication support,	pavements,	all	utilities	and other no	ecessary		
support. Work	must	be in compliance	with currer	nt US	Air Force	e and German			
regulations.	The b	uilding construct	ion will be	e des	igned as p	ermanent co	nstruction		
in accordance	with momor	the DoD Unified H	Facilities (rite Trite	ria (UFC)	1-200-01, Ge	eneral		
Sustainable Bu	ildin	g Requirements.	This project	t wi	-200-02, r ll comply	with DoD	ance and		
antiterrorism/	force	protection requi	irements per	UFC	4-010-01.				
Air Conditioni	Air Conditioning: 15 Tons								
11. Requiremen									
PROJECT: Cons	PROJECT: Construct Airlift Squadron Operations/AMU Facility (Current Mission)								
REQUIREMENT:	A ful	ly functional and	a properly o	onfi	gured cons	olidated Squ	uadron		
Operations/Air	craft	Maintenance Unit	Facility	ls re	quired for	administra	tion,		
scheduling, tr	ainin	g, briefing and e	equipment st	orag	e for airc	rew members	and		
DD FORM 1391,	DEC 9	9 Previo	ous editions	are	obsolete.		Page No.		

 1. COMPONENT
 FY 2017 MILITARY CONSTRUCTION PROJECT DATA
 2. DATE

 AIR FORCE
 (computer generated)
 2. DATE

 3. INSTALLATION, SITE AND LOCATION
 4. PROJECT TITLE

 RAMSTEIN AIR BASE
 CONSTRUCT AIRCRAFT SQUADRON OPERATIONS/AMU

 RAMSTEIN AIR BASE SITE # 1
 FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27576	141-753	3206/TYFR013010	13,437

maintenance personnel to carry out efficiently and effectively the mission of this busiest and largest USAFE C-130J flying squadron. The 37th Airlift Squadron is the primary unit for all tactical airlift missions within Europe, Africa and the Middle East arena, as well as for all contingency support and humanitarian relief operations. This project is a vital piece for the consolidation of all tactical flying operations around the newly constructed C-130 parking apron, two-bay hangar, parts store and C-130J Flight Simulator just recently completed.

CURRENT SITUATION: The operations and maintenance functions currently operate out of five dispersed facilities of which the largest portion is located in a one and a half story addition to aircraft maintenance hangar. Present split operations make it difficult working as one team, also room configurations and sizes do not provide sufficient and efficient workspace to accomplish the assigned mission. A crew bus is used to transit loadmasters and pilots to the aircraft, as well as transit all crew members back to squadron again. The existing operations and briefing rooms are crowded in undersized and non-ventilated rooms, especially in the second floor, which is constructed directly under the roof with sloped ceilings and limited useable space. Most of the buildings used by the maintenance function are too small and deteriorating, some of them neither have adequate heating, nor restrooms. In addition the life support function is located about three miles across the flight-line, generating a 40 minute driving requirement around the runway ends. IMPACT IF NOT PROVIDED: Operations and maintenance personnel will not be able to work together as one unified team and as a result, maximum mission effectiveness will not be realized. Lack of adequate briefing rooms, offices, storage and other operational facilities will seriously impact the operational capability and efficiency of the C-130J flying crews. Due to the dispersed locations, the time to prepare and review missions will be excessive, while the quality of planning and mission analysis suffers accordingly. In addition the bus transportation requirements for aircrews and maintainers from and to the parking apron will continue to exist putting an additional burden on the 86 Logistics Group. This will have a direct negative impact on mission accomplishment. ADDITIONAL: Project is potentially eligible for NATO funding and therefore a prefinancing statement has been submitted to the NATO Office of Resources (NOR) to be included into CP 9A0951 in the amount of EURO 3.5 million for consideration. This

project meets the criteria/scope specified in AFMAN 32-1084, "Facility Requirements." A certificate of exception is being prepared. Force protection measures are considered IAW USAF Installation Protection Guide. Existing space in Hangar 1 (Bldg 2291) will be used to consolidate the 76th Airlift Squadron which provides operational support and distinguished visitor airlift throughout the theater and is currently located on other side of airfield, bringing DV access to operational side of airfield. This will enable the 86 AW to consolidate all flying operations north of the runway, eliminating maintenance intensive taxiway infrastructure, decreasing future maintenance expenses. All known alternatives were considered during the development of this project. A preliminary economic analysis has been performed, indicating that new construction is the most favorable option.

SQ OPS/AMU: 3,561 SM = 38,316 SF

1. COMPONENT	FY 2017 MILI	JECT DATA	2. DATE							
AIR FORCE	(computer generated)									
3. INSTALLATION,	3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE									
RAMSTEIN AIR BASE CONSTRUCT AIRCRAFT SQUADRON (
RAMSTEIN AIR BAS	SE SITE # 1	FACILITY								
GERMANY										
5. PROGRAM ELEME	ENT 6. CATEGORY CODE	. RPSUID/PROJECT NUN	IBER 8. PROJECT C	OST (\$000)						
27576	141-753	3206/TYFR013010) 1:	3,437						

BCE Phone: 314-480-5007

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .899

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 2017 MILITARY (ONSTRUC	TION PROJECT	DATA	2. DATE
AIR FORCE		(comput	er gene	rated)		
3. INSTALLATI	ON AND I	OCATION		4. PROJECT	FITLE	
RAMSTEIN AIR RAMSTEIN AIR GERMANY	BASE BASE SII	re # 1		CONSTRUCT A	IRCRAFT SQUADF AMU FACILITY	RON
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC)ST (\$000)
27576		141-753	3206/	TYFR013010	13,	437
12. SUPPLEMEN	TAL DATA	A:				
a. Estimate	d Design	n Data:				
(1) Statu	s:					
(a) Da	te Desig	gn Started			30	-OCT-15
(b) Pa	rametric	Cost Estimates us	ed to de	evelop costs		YES
* (d) Pe	te 35% I	Designed	N 2016		25	958 -MAD-16
(c) Da	te Desid	an Complete			31	-MAR-17
(f) En	ergy Stu	udy/Life-Cycle anal	ysis was	s/will be per	formed	YES
(2) Basis	:	ar Dofinitivo Dogia	n _			VEC
(b) Wh	ere Des:	ign Was Most Recent	ly Used	-		165
(3) Total	Cost (d	(a) = (a) + (b) or (d) + (e)):		(\$000)
(a) Pr	oduction	n of Plans and Spec	ificatio	ons		806
(b) Al	l Other	Design Costs				403
(c) To	tal					1,209
(d) Co	ntract					1,008
(e) In	I-house					202
(4) Const	ruction	Contract Award				17 AUG
(5) Const	ruction	Start				17 SEP
(6) Const	ruction	Completion				19 APR
* Indicat which i cost an b. Equipmen	es compl s compan d execut t assoc:	letion of Project D rable to traditiona tability. iated with this pro	efinitio 1 35% de ject pro	on with Param asign to ensu ovided from c	etric Cost Es re valid scop other appropri	timate e, ations:
EQUIPMEN:	I NOMENC	lature ap	PROCURIN	G APPRO ION OR RE	AL YEAR PRIATED QUESTED	COST (\$000)
RADIO EQU	JIPMENT		3400	2	2018	150
LAN EQUI	PMENT		3400	2	2018	80
TELEPHONI	ES		3400	2	2018	106
FURNISHI	NGS		3400	2	2018	400
IDS EQUI	PMENT		3400	2	2018	35

1. COMPONENT	F	Y 2017 I		RY CON	STRUC	TION P	ROGRA	M	2. DATI	E (YYYMME	DD)
3 INSTALLATION AND LOCATION				4 COM	MAND						
SPANGDAHI EM								N	5. ARE		
GERMANY				FUROP	F		JRCESI	IN	000	1 17	
6 PERSONNEL	(1) E	PERMAN	ENT	(2)		JTS	(3) 5		TED	1.17	
0. TEROONNEE	OFFICER			OFFICER			OFFICER			т	DTAL
a AS OF 30-Sep-15	390	3597	830	0	0	0	0	0	5207		10.024
b. END FY 2021	450	3800	850	0	0	0	0	0	6200		11.300
7. INVENTORY DATA (\$000)					-	-		-			,
a. TOTAL ACREAGE	1613										
b. INVENTORY TOTAL AS OF	30-Sep-	15									4.010.661
c. AUTHORIZATION NOT YET IN IN	IVENTO	RY									0
d. AUTHORIZATION REQUESTED	IN THIS	PROGR	AM (FY	2017)							43,465
e. PLANNED IN NEXT FOUR PROG		EARS (F	Y 2018 -	- FY 2021	()						28.000
f. REMAINING DEFICIENCY			. 20.0	202 .	/						0
g. GRAND TOTAL											4.082.126
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY)	2017)								,, -
CATEGORY		,	- /					co	ST	DESIG	N STATUS
CODE PRO	JECT TI	TLE				SCO	OPE	(\$0	00)	START	COMPLETE
812-225 EIC - Site Development and	d Infrastr	ucture				0	SM	43,	465	09/15	12/16
								- ,			
9. FUTURE PROJECTS IN NEXT FO 422-265 Munitions Flow Through Fa 721-312 Construct Dormitory (144 P	UR PRO Icility 'N)	GRAM)	ÆARS ((FY 2018	- FY 202	21) 0 5,472	SM SM	3,0 25,	000		
							TOTAL	28,	000		
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	1	.3		
A USAFE installation that is home to th Squadron. A host Fighter Wing comma C-17 and other larger cargo planes.	e largest ands one	t fighter o fighter s	peratior quadror	n in Germ n flying F-	any. In a 16 C&Ds	addition, s, an air d	Spangda control se	ahlem AE quadron	3 is the he and an a	ome of the 7 ir mobility so	26 Air Mobility quadron flying
11. OUTSTANDING POLLUTION AN	D SAFE	TY DEFI	CIENCI	E S (FY 2)	017 - FY	2021)					
a. Air Pollution								()		
b. Water Pollution								()		
c. Occupational Safety and Heal	th							()		
d. Other Environmental								()		
							TOTAL	()		

DD Form 1390, JUL 1999

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT FY 2017	MILII	TARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE			
AIR FORCE	(computer generated)								
3. INSTALLATION, SITE AND LOCATION			4. PROJECT TITLE						
SPANGDAHLEM AIR BASE			EIC -	SITE DEVEL	LOPMENT AND I	NFRASTRUCTURE			
SPANGDAHLEM SITE # 1									
5 DOCDAM ELEMENT C CARECODY C			0.770			COGT (\$000)			
5. PROGRAM ELEMENT 6. CATEGORI C	ODE	/. RPSUID/PF	CO EC.I	NUMBER	5. FRODECI	COSI (\$000)			
27576 812-225		3298/V	YHK17	3001	4	13,465			
	9. 0	COST ESTIMA	TES						
					UNIT	COST			
ITEM			0/M	QUANTITY		(\$000)			
PRIMARY FACILITIES						15,933			
ELECTRICAL UTILITIES (812225)			LM	2,000	3,166	(6,332)			
WATER UTILITIES (841161)			LM	1,950	1,400	(2,730)			
STORMWATER UTILITIES (871183)			LM	2,000	828	(1,656)			
WASTE WATER UTILITIES (832255/66)			LM	2,000	1,007	(2,014)			
ROADWAY PAVEMENTS (851147)			SM	15,750	85	(1,339)			
EXTERIOR AREA LIGHTING (812926)			LM	3,250	8	(26)			
COMMUNICATIONS (135101/583)			LM	1,800	1,020	(1,836)			
SUPPORTING FACILITIES						22,939			
SITE PREPARATION			LS			(15,621)			
LANDSCAPE AND SIDEWALKS			LS			(1,275)			
DEMOLITION - PAVEMENT			LS			(3,060)			
DEMOLITION - BUILDING			LS			(670)			
DEMOLITION - UTILITY			LS			(1,563)			
PASSIVE FORCE PROTECTION MEASURES			LS			(750)			
SUBTOTAL						38,872			
CONTINGENCY (5.0%)						1,944			
TOTAL CONTRACT COST						40,815			
SUPERVISION, INSPECTION AND OVERHEAD	D	(6.5%)				2,653			
TOTAL REQUEST					43,468				
TOTAL REQUEST (ROUNDED)						43,465			

10. Description of Proposed Construction: Work includes all subgrade and subbase preparation, drainage, fencing, area lighting, and other necessary airfield and campus support. Project provides new campus access roadways, utilities, site improvements, communications, and realignment of existing infrastructure. The project also includes demolition of existing airfield pavements and other site horizontal structures, mitigation as required for possible unexploded ordnance (UXO), and construction of roadway entrances into the campus area. The overall site and utility requirements identified are all in support of the construction of an aircraft parking apron with associated taxiways and shoulders required to accommodate CV-22 and MC-130J aircraft, MC-130J Two-Bay Hangar/AMU, CV-22 Three-Bay Hangar/AMU, 2-Bay Maintenance Support Hangar, Headquarters Building, Special Operations Support Squadron Facility, CV-22 & MC-130J Simulator Facility, Parachute Drying Tower, CV-22 & MC-130J Squadron Operations Facility, and Special Tactics Facility. It is proposed that offsite roadway improvements in the form of an oblong roundabout will be constructed to improve the overall traffic situation at the main entrance road into the campus facility. Finally, a secondary roadway entrance will be constructed off of Langley Road to provide an additional access point into the

 1. COMPONENT
 FY 2017 MILITARY CONSTRUCTION PROJECT DATA
 2. DATE

 AIR FORCE
 (computer generated)
 2. DATE

 3. INSTALLATION, SITE AND LOCATION
 4. PROJECT TITLE

 SPANGDAHLEM AIR BASE
 EIC - SITE DEVELOPMENT AND INFRASTRUCTURE

 SPANGDAHLEM AIR BASE
 EIC - SITE DEVELOPMENT AND INFRASTRUCTURE

 SPANGDAHLEM SITE # 1
 GERMANY

 5. PROGRAM ELEMENT
 6. CATEGORY CODE

 27576
 812-225

 3298/VYHK173001
 43,465

campus. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 0 Tons

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

PROJECT: Site Development & Infrastructure (New Mission)

REQUIREMENT: Adequate facilities and infrastructure properly sized and configured to support the relocation of the 352 SOW to from RAF Mildenhall to Spangdahlem AB in support of the European Infrastructure Consolidation (EIC) effort. Facilities must support the 352 SOW's mission to plan and perform specialized operations using advanced aircraft, tactics and air refueling techniques to transport and resupply military forces.

CURRENT SITUATION: In an effort to save the U.S. government approximately \$500 million annually, the DoD is consolidating some of the U.S. infrastructure in Europe. These actions are taken as part of the European Infrastructure Consolidation (EIC) process. The process will enhance a U.S. rotational presence in Europe for training, exercise, and other NATO activities (U.S. DoD News Release NR-004-15, January 08, 2015). The EIC actions include divesting RAF Mildenhall and returning the installation to the United Kingdom. As the only Air Force special operations unit in the European Command the 352 SOW must relocate to an installation that will allow the unit to continue its mission under the Special Operations Command in Europe. Early site investigation efforts by HQ AFSOC determined that Spangdahlem AB was best suited installation to support the relocation of the 352 SOW within the European theater. While the installation has the capacity to support the 352 SOW, many of the required facilities are inadequately sized or configured, in particular the aircraft parking aprons and aircraft maintenance hangars. Use of existing facilities for the other operations, equipment maintenance, and administrative support would leave the 352 SOW scattered throughout the installation, significantly reducing operational readiness of the units that comprise the SOW.

IMPACT IF NOT PROVIDED: Without this project the 352 SOW will not be able to adequately relocate to Spangdahlem AB in support of the EIC actions. If the 352 SOW is required to relocation without construction of new facilities, the 1,000+ Air Force personnel charged with providing specialized operations using advanced aircraft, tactics, and air refueling techniques to transport and resupply military forces will find their day-to-day aircraft maintenance and aircraft launch operations negatively impacted as they are supported in inefficient, scattered, and inadequately sized/configured facilities. The 352 SOW personnel will work with a shortage in required aircraft parking apron space, hangar bays, back shops, secured mission planning space, simulated training rooms, and operating space. The lack of adequate hangar facilities will adversely impact the maintenance turn-around times which will reduce aircraft mission capability rates. Without covered maintenance space, inclement weather and darkness will directly impact mission readiness. Lack

1. COMPONENT	FY 2017 MILITARY CONSTRU	2. DATE	
AIR FORCE	(computer ger		
3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TITLE	
SPANGDAHLEM AIR	BASE	EIC - SITE DEVELOPMENT AND IN	RASTRUCTURE
SPANGDAHLEM SIT	'E # 1		

GERMANY			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27576	812-225	3298/VYHK173001	43,465

of existing Secure Areas needed to support the multiple intelligence operations will result in severely reduced operational capability for the 25th Intelligence Squadron, the Special Advisor, the JAOC, and JSOAC.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements," UFC 3-260-1, Airfield & Heliport Planning & Design, and Air Force Special Operations Command Facility Requirements Documents. An economic analysis waiver will be required based on AFI 65-501 Section1.22 and is pending.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .899

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

1. COMPONENT		DATA	2. DATE					
AIR FORCE								
3. INSTALLATI	ON AND L	OCATION		4. PROJECT	FITLE	I		
SPANGDAHLEM A	IR BASE			EIC - SITE	DEVELOPMENT AN	1D		
SPANGDAHLEM S	ITE # 1			INFRASTRUCT	URE			
GERMANY								
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)		
27576		812-225	3298/	VVHK173001	43	465		
10 00000		012 223	52507	VIIIKI / 5001	137	105		
12. SUPPLEMEN	TAL DATA	A:						
a. Estimate	d Desigi	n Data:						
(I) Statu (a) Da	s: te Desid	m Started			15	_9FD_15		
(b) Pa	rametrio	c Cost Estimates use	d to de	evelop costs	15	YES		
* (c) Pe	rcent Co	omplete as of 01 JAN	1 2016			15%		
* (d) Da	te 35% I	Designed			15	-MAR-16		
(e) Da	te Desig	n Complete			31	-DEC-16		
(f) En	ergy Stu	udy/Life-Cycle analy	sis was	s/will be per	formed	YES		
(2) Pagig								
(2) Basis (a) St	: andard (or Definitive Design				NO		
(b) Wh	ere Desi	ign Was Most Recentl	y Used	-	Design Bi	d Build		
(3) Total	Cost (d	c) = (a) + (b) or (d	l) + (e)):		(\$000)		
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		2,608		
(b) Al	l Other	Design Costs				1,304		
(c) To	tal					3,912		
(d) Co	(d) Contract							
(e) In	-house					652		
(4) Const	ruction	Contract Award				17 JUN		
(5) Const	ruction	Start				17 JUL		
(6) Const	ruction	Completion				19 JUN		
* Indicat which i cost an	es compl s compar d execut	letion of Project De rable to traditional rability.	finitio 35% de	on with Param esign to ensu	netric Cost Es nre valid scop	timate e,		
b. Equipmen N/A	t associ	iated with this proj	ect pro	ovided from c	other appropri	ations:		

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROGRAM 2. DATE							E (YYYMMDD) 20150911			
3 INSTALLATION AND LOCATION											
IOINT REGION MARIANAS - ANDER	SEN			4. COMMAND					5. ARE		
				PACIFIC AIR FORCES				000	2 31		
	(1) E			(2)	STUDEN	ITE	(2) (TED	2.31	
0. FERSONNEL										ΤΟΤΑΙ	-
a AS OF 20 Sep 15	1E0			OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		2 1 20
a. AS OF 30-Sep-15	150	1642	370								2,123
	100	1043	303								2,104
A TOTAL ACREACE	20.270										
	20,270	45									
D. INVENTORY TOTAL AS OF	SU-Sep-										0,145,097
		RI		0047)							434,030
d. AUTHORIZATION REQUESTED				2017)	~						80,008
e. PLANNED IN NEXT FOUR PROG		EARS (F	Y 2018 -	· FY 2021)						228,876
									-		175,449
g. GRAND IOTAL											7,064,110
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY	2017)								
CATEGORY								CC	ST	DESIGN ST	ATUS
<u>CODE</u> <u>PRO</u>	JECT TI	TLE				<u>SCC</u>	OPE	<u>(\$0</u>	<u>00)</u>	<u>START</u> CC	<u>MPLETE</u>
131-111 APR - SATCOM C4I Facilit	у					300	SM	14,	200	Design B	uild
211-111 Block 40 Maintenance Han	gar					3,001	SM	31,	158	06/15	09/16
422-264 APR - Munitions Storage Ig	loos, Ph	2				784	SM	35,	300	Design B	uild
							TOTAL	80,	658		
9. FUTURE PROJECTS IN NEXT FO	UR PRO	GRAM \	EARS ((FY 2018	- FY 202	1)					
422-264 APR - Munitions Storage Ig	loos, Ph	3				3,920	SM	39,	001		
113-321 APR - N Ramp Dispersed F	Parking A	Apron/Inf	ra			104,004	SM	147	,800		
422-264 APR - Munitions Storage Ig	loos, Ph	4				3,600	SM	42,	075		
							TOTAL	228	,876		
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	2	.2		
10. MISSION OR MAJOR FUNCTION	S										
JRM-Andersen is home to the 36th Wir the most forward US sovereign air force Command. Provides a Contingency Re open and operate an air base for both o	ng (36 W e base ir esponse combat a	G) with t the Pac Group w and huma	he prima ific. Pro ith a "91 anitarian	ary missic ovides cor 1 force" o assistano	on to emp ntinuous capability ce missic	bloy, dep bomber to quick ons.	loy, integ presence dy deploy	grate, and e 365 da <u>y</u> y to any h	d enable ys per ye not spot ir	air and space for ar to support US n the region to qu	ces from Pacific ıickly
11. OUTSTANDING POLLUTION AN	D SAFE	TY DEFI	CIENCI	E S (FY 2	017 - FY	2021)					
a. Air Pollution								()		
b. Water Pollution								(0		
c. Occupational Safety and Heal	th							(0		
d. Other Environmental								()		
							TOTAL		0		

DD Form 1390, JUL 1999

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT	FY 2017 MILIT	2. DATE						
AIR FORCE	(c							
3. INSTALLATION, SI	TE AND LOCATION		4. PF	ROJECT TITLE	2			
JOINT REGION MARIAN	IAS - ANDERSEN		APR -	MUNITIONS	STORAGE IGLO	OS, PHASE 2		
ANDERSEN AF BASE SI	TE # 1							
GUAM		1			1			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
27576	422-264	1366/2	AJJY07	3105P2	:	35,300		
	9. 0	COST ESTIMA	TES					
			/		UNIT	COST		
	LTEM		U/M	QUANTITY		(\$000)		
PRIMARY FACILITIES						19,547		
CONSTRUCT MODULAR	STORAGE MAGAZINES		SM	3,281	5,848	(19,186)		
SUSTAINABILITY AND	ENERGY MEASURES		LS			(361)		
SUPPORTING FACILITI	ES					11,000		
ENVIRONMENTAL REME	DIATION		LS			(750)		
ARCHAEOLOGICAL MON	ITORING		LS			(250)		
PAVEMENT			LS			(2,500)		
SITE IMPROVEMENTS			LS			(2,500)		
UTILITIES			LS			(4,500)		
UXO/EXPLOSIVE SAFE	TY SUBMISSION REQUIREN	MENTS	LS			(500)		
SUBTOTAL					-	30,547		
CONTINGENCY (5.0)%)					1,527		
TOTAL CONTRACT COST					-	32,075		
SUPERVISION, INSPECT	TION AND OVERHEAD	(6.2%)				1,989		
DESIGN/BUILD - DESIG	GN COST (4.0% OF S	SUBTOTAL)				1,222		
TOTAL REQUEST			-	35,285				
TOTAL REQUEST (ROUNI				35,300				
10. Description of Proposed Construction: Construct munitions Hayman storage								
igloos utilizing conventional design and construction methods to accommodate the								
mission of the fac	mission of the facility. The facility should be compatible with applicable DoD,							
construction tech	niques shall be use	d where co	st ef	fective.	The facilit	v must also		

igloos 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. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02; High Performance and Sustainable Building Requirements; and the U.S. Air Force Munitions Facilities Standards Guide, Volume 1, 31 May 2004.. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

11. Requirement: 37000 SM Adequate: 2319 SM Substandard: 25406 SM

<u>PROJECT:</u> Asia-Pacific Resiliency (APR) Munitions storage igloos, Phase 2. (Current Mission)

REQUIREMENT: This project is the second phase of a four phase 60 igloo requirement to provide adequately sized, configured, sited and protected munitions storage igloos to ensure sufficient supply of the new highly sophisticated munitions that will be critical in the initial stages of any armed combat missions. This phase will construct 17 munitions Hayman storage igloos. All MSM require power, lights, intrusion detection system, humidity control, reinforced concrete foundation, rated

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3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE JOINT REGION MARIANAS - ANDERSEN APR - MUNITIONS STORAGE IGLOOS, PHASE 2 ANDERSEN AF BASE SITE # 1 GUAM 5. PROGRAM ELEMENT CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000)

FY 2017 MILITARY CONSTRUCTION PROJECT DATA

1366/AJJY073105P2

7-bar construction, floor slabs, columns, beams, communications, lighting and electrical support, fire protection system, and lightning protection system. Supporting facilities include site development, utilities and connections, road construction, and loading aprons. Project will utilize economical design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria UFC 1-200-02. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

CURRENT SITUATION: The 36th Munitions Squadron stores, inspects, maintains and accounts for the largest munitions stockpile in Pacific Air Forces currently valued at over \$1.3B and assembles and delivers these munitions to deployed combat aircraft during wartime or contingency operations. 36 MUNS is entrusted with the health of Andersen's stockpile which is valued in excess of \$1.28 billion. They ensure proper storage practices are utilized, inspect and maintain these munitions and ensure accountability of over 9 million individual items. In April 2002, the USAF Safety Center classified 132 existing 1950s munitions igloos as "undefined" due to faulty door design, thus downgrading these facilities to non-standard type operations. This, compounded by deterioration of the facilities and their loss of earth cover caused by super typhoons, caused the Net Explosive Weight (NEW) to be reduced by 14,000,000 lbs total. A joint Pacific Air Forces/wing munitions squadron assessment of the munitions storage capability was conducted. The assessment identified a 60 each munitions storage igloo shortfall. These igloos are needed to meet the munitions mission required by the War Consumables Distribution Objectives document, Defense Planning Guidance, and PACOM O-plans. Over the past 10 years, the squadron has continually provided munitions, equipment and operating locations in support of Pacific Command's Continuous Bomber Presence averaging 1K+ expenditures per B-52 rotation and to support annual major joint and multilateral exercises producing over 6.5K expenditures each (i.e. Ex COPE NORTH, Ex VALIANT SHIELD). Furthermore, 36 MUNS responds to emerging threats such as generating air-to-air weapons for Operation NOBLE EAGLE missions defending the skies over Guam and the Commonwealth of Northern Marianas Islands. The squadron also assists Task Force Talon with storage space for small arms and air defense resupply missile rounds along with drive-in storage for typhoon defensive measures. IMPACT IF NOT PROVIDED: Generally, 36 MUNS operates at ~90% of its physical storage capacity and ~90% of its Net Explosive Weight capacity. Capacity is strained further throughout a given year due to the arrival of resupply munitions and munitions placed at Andersen AFB temporarily until directed by PACAF/A4MWC to push elsewhere. Additionally, the squadron expects to bed down approximately 400 JASSM-ER missiles beginning FY17 requiring storage facilities with wide entryways to prevent damage to shipping containers during handling. Constructing additional Hayman igloos will adequately prepare 36 MUNS for JASSM-ER bed down, allow for 36 WG and tenant unit mission expansion and preservation while continuing to defend war fighting resources against aggressive environmental climatic conditions. Lack of adequate munitions storage will continue to adversely impact essential forwardpositioned munitions storage capability needed that supports AEF FOL operations.

Previous editions are obsolete.

(computer generated)

422-264

35,300

27576

AIR FORCE

1. COMPONENT

1. COMPONENT		FY 2017 MILIT	FA	2. DATE			
AIR FORCE		(computer generated)					
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE							
JOINT REGION MARIANAS - ANDERSEN APR - M				APR - MUNITIONS	STORAGE IGLOOS	, PHASE 2	
ANDERSEN AF BASE SITE # 1							
GUAM							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)	
27576		422-264	1366/	AJJY073105P2	35	5,300	
The inability to properly store new weapons systems at Andersen AFB will deprive							
PACAF immediate access to selected munitions to meet changing AEF FOL taskings and							
bomber sortie generation. These munitions support on-going operations such as							
Operation Enduring Freedom (OEF) and Operation Nobel Eagle (ONE)							

ADDITIONAL: This project meets the criteria/scope specified in AFH 32-1084, "Facility Requirements". A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs, new construction. Therefore a request for waiver has been submitted and approved. The supporting costs for this project are higher than usual do to the distance necessary to run the utilities and the large associated pavements. Any hazardous materials must be disposed of in accordance to all Federal and Local Regulations. Base Civil Engineer: 671-366-7101. Modular Storage Magazines: 3281 SM = 35,304 SF.

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.

1. COMPONENT AIR FORCE	COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE FORCE (computer generated)							
3 TNSTALLATT		OCATION			ΨT E			
JOINT REGION	MARIANAS	5 - ANDERSEN		APR - MUNITIO	NS STORAGE IG	JOOS, PHASE		
GUAM	ASE SITE	. # I		2				
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CC	ST (\$000)		
27576		422-264	1366	/AJJY073105P2	35,	300		
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 (b) Wh	andard o here Des	or Definitive Design ign Was Most Recent:	n - ly Use	ed -		NO		
(3) All O	ther Des	ign Costs				1,412		
(4) Const	ruction	Contract Award				17 FEB		
(5) Const	ruction	Start				17 MAR		
(6) Const	(6) Construction Completion							
(7) Energ	y Study/	Life-Cycle analysis	was/	will be perfor	med	YES		
N/A								

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA					2. DATE	
AIR FORCE		(computer generated)					
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE							
JOINT REGION MA ANDERSEN AF BAS GUAM	JOINT REGION MARIANAS - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM					FACILITY	
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)
27576		131-111	1366/	AJJY1	73010		14,200
		9. C	OST ESTIMA	TES	1		
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
COMM FCLTY							7,126
COMMUNICATIONS	FACIL	ITY		SM	300	23,297	(6,989)
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(137)
SUPPORTING FACIN	LITIES						5,191
UTILITIES				LS			(441)
SITE IMPROVEME	NTS			LS			(497)
PAVEMENTS				LS			(218)
COMMUNICATIONS				LS			(3,507)
ENVIRONMENTAL	REMEDI	ATION		LS			(453)
ARCHEOLOGICAL	MONITO	RING		12			(73)
SUBTOTAL	(= 0%)						12,317
TOTAL CONTRACT	(5.0%) 705T	1					12,933
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(6.2%)				802
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)				493
TOTAL REQUEST							14,227
TOTAL REQUEST (1	ROUNDE	D)					14,200)
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				(1,405
10. Descripti	on of	Proposed Construc	tion: Co	nstru	ict Satelli	te Communic	ations
utilizing conv	na, c ventio	nal design and cor	nstruction	meth	ods to acc	commodate th	e mission
of the facilit	y. Th	e facility should	be compati	ible	with appli	cable DoD,	Air Force,
and base desig	n sta	ndards. In additio	on, local i	mater	ials and c	construction	1 techniques
shall be used	where seis	cost effects as pre	The facilities for the facilities of the facilit	ty mu n app	ist also be blicable co	e able to wind des	thstand
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, Ge	neral	. Building	Requirement	s and UFC
1-200-02, High	Perf	ormance and Sustai	inable Bui	lding	Requireme	ents. This p	project will
comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.							
PROJECT: SATC	CM C4	I Facility. (New M	(ission)	2022			
REQUIREMENT:	An ad	equately sized and	l configur	ed co	mmunicatio	ons facility	/ that
ensures divers	e com	munications system	n is availa	able	to support	theater re	equirements.
The facility contains the equipment necessary to ensuring fast, reliable, and							
secure exchange of information, including the distribution frames and associated panels, jacks, and switches that allows telecommunications systems control							
personnel to e	exerci	se operational cor	ntrol of co	ommun	ications p	oaths and fa	acilities to
make quality a	nalys	es of communicatio	ons and co	mmuni	cations ch	nannels, mor	nitor
DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.							

AIR FORCE	(computer generated)							
3. INSTALLATION,	, SITE AND LOCATION 4. PROJECT TITLE							
JOINT REGION MARIANAS - ANDERSEN APR - SATCOM C41 FACILITY								
ANDERSEN AF BASE	SITE	5 # 1						
GUAM		1						
5. PROGRAM ELEME	INT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO)ST (\$000)		
27576		131-111	1366	/AJJY173010	14	,200		
operations and	main	tenance functions,	, recogniz	e and correct d	eteriorating			
conditions, rea	store	e disrupted commun:	ications,	provide request	ed on-call c	ircuits,		
and take or di	rect	such actions as ma	iy be requ	ired and practi	cal to provid	de		
effective tele	commu	inications services	3.					
CURRENT SITUAT	ION:	The existing Tech	1 Control	and Mystic Star	facilities :	lack the		
redundancy and	dive	ersity necessary to) ensure c	ontinuous commu	nications ope	erations.		
communications	reate	s a diverse path i	for essent	Ial SATCOM and	theater			
TMDACT IE NOT I		DED. IBM Andorrow	will con	tinuo to functi	on with the	rick of		
communications	inte	erruptions due to f	echnologi	cal, natural or	man-made fa	ilures.		
Such interrupt:	ions	could jeapardize A	Andersen's	ability to pro	vide continuo	ous		
communications	seve	erely impact SATCO	4 and thea	ter operations.				
ADDITIONAL: T	his p	project meets the a	applicable	criteria/scope	identified :	in AFMAN		
32-1084, "Faci	lity	Requirements". A p	preliminar	y analysis of r	easonable op	tions for		
satisfying this	s req	uirement indicates	s that onl	y one option wi	ll meet miss:	ion needs;		
therefore, a co	omple	ete economic analys	is was no	t performed and	a request fo	or waiver		
has been submit	tted.	The initial cost	is within	DoD Pricing Gu	ide parameter	rs, except		
as noted. The	tacıl	ity requires addit	lonal shi	elding to meet	TEMPEST requi	irements,		
communications	infr	costs for this pro	d to com	ect to the base	's network	Base		
Civil Engineer	: (90	07) 377-5213. SAT	COM C4I Fa	cility: 300 SM	= 3,230 SF.	Dube		
JOINT USE CERT	ТЕТСА	TTON. This facili	v can be	used by other c	omponents on	an "as		
available" bas:	is; h	owever, the scope	of the pr	oject is based	on Air Force			
requirements.	-		-	-				
DD FORM 1391, I	DEC 9	9 Previou	s edition	s are obsolete.	P	age No.		

FY 2017 MILITARY CONSTRUCTION PROJECT DATA

1. COMPONENT

2. DATE
| 1. COMPONENT
AIR FORCE | | FY 2017 MILITAR | Y CONSTRI
puter gen | JCTION
herated | PROJECT | DATA | 2 | . DATE | | |
|---|----------|------------------|------------------------|-------------------|-------------------------|-------------------------------|----------|-----------------|--|--|
| 3. TNSTALLATT | ON AND T | OCATION | | 4 PP(| ַ
 | | <u> </u> | | | |
| JOINT REGION | MADTANAC | - ANDEDGEN | | | SATCOM (| CAT FACTLITY | | | | |
| ANDERSEN AF B | ASE STTE | r = ANDERSEN | | APR - | SAICOM | C41 FACILIII | | | | |
| GUAM | | | | | | | | | | |
| 5. PROGRAM EL | EMENT | 6. CATEGORY CC | DE 7. PI | ROJECT | NUMBER | 8. PROJECT CC | ST | (\$000) | | |
| 27576 | | 131-111 | 136 | 6/AJJY | 173010 | 14, | ,20 | 0 | | |
| 12. SUPPLEMEN | ITAL DAT | A: | | | | | | | | |
| a. Estimate | d Design | n Data: | | | | | | | | |
| (1) Proje | ct to be | accomplished by | design- | build p | procedur | es | | | | |
| (2) Basis | : | | | | | | | | | |
| (a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used - | | | | | | | | | | |
| (3) All O | ther Des | ign Costs | | | | | | 568 | | |
| (4) Const | ruction | Contract Award | | | | | 17 | FEB | | |
| (5) Const | ruction | Start | | | | | 17 | MAR | | |
| (6) Const | ruction | Completion | | | | | 18 | DEC | | |
| (7) Energ | y Study/ | Life-Cycle analy | vsis was/ | will be | e perfor | med | | YES | | |
| EQUIPMENT | nomenc: | LATURE | PROCURING | APPRC | FISCA
APPRO
OR RE | AL YEAR
PRIATED
QUESTED | | COST
(\$000) | | |
| COMMUNIC | ATIONS E | QUIPMENT | 308 | 0 | 2 | 018 | | 1,250 | | |
| FURNISHI | NGS AND | EQUIPMENT | 340 | 0 | 2 | 018 | | 155 | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

1. COMPONENT		FY 2017 MILI	TARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE
AIR FORCE		((computer gen	erate	d)		
3. INSTALLATION	, SITI	E AND LOCATION		4. PF	ROJECT TITL	Ξ	•
JOINT REGION MA	RIANA	5 - ANDERSEN		BLOCK	40 MAINTEN	NANCE HANGAR	
ANDERSEN AF BAS GUAM	E SITI	5 # 1					
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PI	ROJECI	NUMBER	8. PROJECT C	OST (\$000)
35220		211-111	1366/#	JJY17	3001	31	,158
		9.	COST ESTIMA	TES	1		
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITI	ES						21,618
HIGH BAY MAINT	ENANCE	E HANGAR (211-111)		SM	2,264	7,316	(16,563)
MAINTENANCE SHO	OPS (2	211-152)		SM	743	6,267	(4,656)
SUSTAINABILITY	AND E	ENERGY MEASURES		LS			(398)
SUPPORTING FACII	LITIES						6,324
UTILITIES				LS			(824)
PAVEMENTS				LS			(2,376)
SITE IMPROVEMEN	NTS			LS			(704)
COMMUNICATIONS				LS			(260)
HAZARDOUS MATE	RIALS	ABATEMENT/ESS REQUI	IREMENT	LS			(2,160)
SUBTOTAL							27,942
CONTINGENCY	(5	.0%)					1,397
TOTAL CONTRACT (COST						29,339
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.2%)				1,819
TOTAL REQUEST							31,158
TOTAL REQUEST (F	ROUNDE	D)					31,158
EQUIPMENT FROM (THER	APPROPRIATIONS (NON	I-ADD)				(150.0)
10. Descripti with shops uti the mission of seismic loads techniques sha construction s	on of lizin the exper 11 be tanda	Proposed Constru- g conventional de facility. The fa- ienced in the loc used where cost rds and in accord	action: Con esign and con acility must cal area. I effective, dance with I	onstru onstru be Cocal cons DoD U	ct 3,007 S uction met able to wi materials istent wit nified Fac 200-02 Wi	M maintenanc hods to acco thstand the and constru h permanent ilities Crit ab Performan	e hangar mmodate wind and ction eria (UFC) ce and
Sustainable Bu antiterrorism/ Air Conditioni	ildin force ng:	g Requirements. protection requi 100 Tons	This projective	et wi r UFC	11 comply 4-010-01.	with DoD	
11. Requiremen	- t: 97	41 SM Adequate	e: 6734 SM	Su	bstandard:	0 SM	
PROJECT: Glob	al Ha	wk Block 40 Maint	tenance Hang	gar.	(New Missi	lon)	
REQUIREMENT: An aircraft maintenance complex is required to support the Block 40 aircraft beddown at Andersen AFB, Guam. Global Hawk aircraft require all-weather interior maintenance space to accomplish scheduled inspections, airframe repairs, pre- and post-flight operations, as well as technical order compliance and modifications. The facility includes covered maintenance space for two aircraft, maintenance support space, supply/tool room/support section, classified storage, support equipment maintenance, aircraft parts receiving, shipping and storage.							
maintenance op intrusion dete	erati ction	ons center, secur system, environm	re work area mental contr	as, f cols,	ire detect communica	tion/ suppres tions, utili	sion, ties,

necessary supporting utilities/facilities for complete and usable facility. CURRENT SITUATION: Andersen AFB lacks adequate facilities to conduct squadron level maintenance for the new Block 40 Global Hawk mission. The existing Global Hawk hangar does not contain adequate space for the additional aircraft/mission. Other existing hangars are inadequately sized and improperly configured to

pavements, GOV/POV parking, demolition, hazardous materials abatement, and all

accommodate the specialized requirements of the new Global Hawk aircraft. IMPACT IF NOT PROVIDED: Without this project, the AF will be unable to properly beddown PACOM's Global Hawk Block 40 aircraft at Andersen AFB and will be unable to maintain sensitive airborne sensor equipment in a controlled environment. To perform essential sortie-generation activities, it will be required to regularly tow aircraft out of the existing hangar and be parked outside. If pre-flight of aircraft is conducted outside, there is significant risk of mission delay or failure because all avionics are cooled by fuel that heats up rapidly in aircraft parked outside. Parking outside also risks premature corrosion due to a combination of 80% humidity, high temperatures, salt in the air, and approximately 90 inches of rain each year.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This project meets the criteria/scope specified in previous PACAF Global Hawk Beddown SATAF Reports. A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs. Therefore, a complete economic analysis was not performed; a request for waiver has been submitted. Base Civil Engineer: Comm 671-366-7101. High Bay Maintenance Hanger: 2,264 SM = 24,370 SF; Maintenance Shops: 743 SM = 7,950 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.

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Page No.

8. PROJECT COST (\$000)

31,158

(computer generated)

FY 2017 MILITARY CONSTRUCTION PROJECT DATA

7. RPSUID/PROJECT NUMBER

1366/AJJY173001

3. INSTALLATION, SITE AND LOCATION JOINT REGION MARIANAS - ANDERSEN ANDERSEN AF BASE SITE # 1

6. CATEGORY CODE

211-111

1. COMPONENT

5. PROGRAM ELEMENT

35220

AIR FORCE

GUAM

4. PROJECT TITLE BLOCK 40 MAINTENANCE HANGAR

1. COMPONENT		FY 2017 MILITAR	Y CONSTRU	CTION PR	OJECT	DATA	2. DATE			
AIR FORCE		(com	puter gen	erated)						
3. INSTALLATI	ON AND I	OCATION		4. PRO	JECT 1	TITLE				
JOINT REGION ANDERSEN AF B GUAM	MARIANAS ASE SITE	- ANDERSEN :#1		BLOCK	40 MA:	INTENANCE HANC	BAR			
5. PROGRAM EL	EMENT	6. CATEGORY CO	DE 7. PI	OJECT NU	MBER	8. PROJECT CO	ST (\$000)			
35220		211-111	136	5/AJJY173	3001	31,	158			
12. SUPPLEMEN	TAL DAT	\:	1			1				
a. Estimated Design Data:										
(1) Statu	s:									
(a) Da	te Desig	n Started				15	-JUN-15			
(b) Pa	rametrio	Cost Estimates	used to	develop (costs		YES			
* (c) Pe	ercent Co	omplete as of 01	JAN 2016				15%			
* (d) Da	te 35% I	Designed				31	-MAR-16			
(e) Da	te Desig	yn Complete				30	-SEP-16			
(f) En	ergy Stu	udy/Life-Cycle ar	nalysis w	as/will]	be per	formed	YES			
(2) Basis	:									
(a) St	andard o	or Definitive Des	sign -				NO			
(b) Wh	ere Des:	lgn Was Most Rece	ently Use	d -						
(3) Total	Cost ((a) = (a) + (b) or	· (d) + (e).			(\$000)			
(3) Pr	oduction	f of Plans and Sr	ecificat	ions			1-860			
(a) 11 (b) Al	1 Other	Design Costs	eciricat	10115			930			
(C) TC	tal	Design Coscs					2.790			
(d) (d)	ntract						2,325			
(a) ee (e) In	-house						465			
(4) Const	ruction	Contract Award					17 FFB			
(4) Const							17 120			
(3) Const	.ruccion	Start					17 MAR			
(6) Const	ruction	Completion					19 JUN			
* Indicat which i cost an	es compi s compan d execut	letion of Project cable to traditic cability.	Definit	ion with design to	Param o ensu	netric Cost Es nre valid scop	timate e,			
b. Equipmen	t assoc:	lated with this p	project p	rovided i	from c	other appropri	ations:			
EQUIPMEN	I NOMENC	LATURE	PROCUR: APPROPRI	ING ATION	FISCA APPRO OR RE	AL YEAR DPRIATED QUESTED	COST (\$000)			
FURNITUR	E AND FI	XTURES	340)	2	2018	100			
ADP EQUI	PMENT		340)	2	2018	50			

1. COMPONENT	F	FY 2017 MILITARY CONSTRUCTION PROGRAM 2. DATE (YYYMMDD)									D)
				4 001						201509	11
3. INSTALLATION AND LOCATION				4. COM	IMAND				5. ARE/		JCTION
KADENA AIR BASE JAPAN				PACIFIC	C AIR FO	RCES			COS	1 77	
6. PERSONNEL	(1)	PERMAN	FNT	(2)	STUDEN	ITS	(3)	SUPPOR	TFD	1.77	
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	т	DTAL
a. AS OF 30-Sep-15	711	5637	905								7,253
b. END FY 2021	717	6079	915								7,711
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE	10,983										
b. INVENTORY TOTAL AS OF	30-Sep-	15									8,367,184
c. AUTHORIZATION NOT YET IN IN	IVENTO	RY									0
d. AUTHORIZATION REQUESTED	IN THIS	PROGR	AM (FY2	2017)							19,815
e. PLANNED IN NEXT FOUR PROG	RAM YE	EARS (F	Y 2018-2	2021)							47,100
f. REMAINING DEFICIENCY									96,050		
g. GRAND TOTAL											8,530,149
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY2	2017)								
	CA	TEGORY						CO	ST	DESIG	N STATUS
CODE PRO	JECT TI	TLE				SCO	DPE	<u>(\$0</u>	<u>00)</u>	<u>START</u>	<u>COMPLETE</u>
422-264 APR - Replace Munitions S	Structure	S				3,637	SM	19,	815	06/15	09/15
9. FUTURE PROJECTS IN NEXT FO 125-977 APR - Fuel Manifold 411-135 APR- POL Storage 740-674 Add Alter Fitness Center	UR PRO	GRAM Y	EARS (/	FY 2018- FUT	FY 2021,	776 776 9,994 OJECTS	SM SM SM	19, 9,8 10, 27, 47,	815 300 300 000		
R&M UNFUNDED REQUIREMENT (\$	M)						ΤΟΤΔΙ	13	9.1		
10. MISSION OR MAJOR FUNCTION	ls							13			
Operating from the largest US installat responsive staging and operational air around 93 aircraft comprised of 54 F-1	ion in the base wit 5, 15 KC	e Asia-Pa th integra C-135, 2 I	ucific regi Ited, dep E-3, 10 C	ion, the 1 loyable, f C-130, an	8th Wing forward-b d 2 RC-1	ı defends ased airı 35.	SUS and power. S	l Japanes Strategy เ	se mutua used to e	l interests by mploy this n	y providing a hission centers
11. OUTSTANDING POLLUTION AN	D SAFE	TY DEFIC		S (FY 20	017 - FY 2	2021)					
a. Air Pollution								()		
b. Water Pollution								()		
c. Occupational Safety and Hea	lth							()		
d. Other Environmental								()		
							TOTAL	()		

DD Form 1390, JUL 1999

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT		FY 2017 MILI	TARY CONSTRU	CTION	PROJECT DA	TA	2. DATE	
AIR FORCE		(computer gen	erate	d)			
3. INSTALLATION	, SIT	E AND LOCATION		4. PI	ROJECT TITLE	S	- ·	
KADENA AIR BASE				APR -	REPLACE MU	NITIONS STRUC	TURES	
KADENA AMMO STO	RAGE	ANNEX SITE # 1						
JAPAN		1						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PI	ROJECI	NUMBER	8. PROJECT (COST (\$000)	
27576		422-264	2406/1	LXFB12	3876	1	9,815	
		9.	COST ESTIMA	TES	l			
						UNIT	COST	
		ITEM		U/M	QUANTITY		(\$000)	
PRIMARY FACILIT	ES						9,506	
ABOVEGROUND ST	ORAGE	(422-258)		SM	841	2,023	(1,701)	
STORAGE IGLOO	(422-2	264)		SM	2,676	2,847	(7,619)	
SUSTAINABILITY	AND H	ENERGY MEASURES		LS			(186)	
SUPPORTING FACII	ITIES	5					8,214	
UTILITIES				LS			(3,602)	
PAVEMENTS				LS			(1,511)	
DEMOLITION				SM	3,915	310	(1,214)	
SITE PREPARATIO	NC			LS			(1,401)	
FORCE PROTECTIO	NC			LS			(486)	
SUBTOTAL							17,720	
CONTINGENCY	(5	5.0%)					886	
TOTAL CONTRACT (COST						18,606	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				1,209	
TOTAL REQUEST							19,815	
TOTAL REQUEST (F	ROUNDE	D)					19,815	
10. Descripti	on of	Proposed Constru	uction: The	is pr	oject will	demolish 14	4 earth	
covered muniti	ons s	storage igloos (EC	CM) and 1 al	ove	ground mag	azine (AGM)	to be	
replaced by 15	ECMs	and 1 AGM to ac	commodate (the m	ission of	the facility	y. In	
addition, loca	addition, local materials and construction techniques shall be used where cost							
effective. Th	effective. The facility must also be able to withstand wind loads and seismic							
errects as pre	effects as prescribed in applicable codes and design guides. This project includes							
aemolition of a	demolition of munitions storage structures to include testing and abatement of							
aspestos and/o	asbestos and/or lead base paint materials. 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; and the U.S. Air Force Munitions Facilities Standards Guide, Volume 1, 31 May 2004. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

11. Requirement: 3517 SM Adequate: 0 SM Substandard: 3885 SM

PROJECT: Replace munitions structures. (Current Mission)

REQUIREMENT: This project is part of a multi-phased effort to replace the munitions storage structures facilities at Kadena AB. Work to be included in this effort: For existing Igloos/Earth Covered Magazines, demolish existing facility and replace with 7-Bar Hayman Earth Covered Magazines featuring large sliding doors to support current and future munitions assets and their handling equipment. For Above Ground Magazines: Demolish existing facility and replace with Above Ground Magazine. Features to include drive-in-access, from ground level, to accommodate a

1. COMPONENT	FY 2017 MIL]	ATA 2. DATE						
AIR FORCE		(computer generated)						
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE								
KADENA AIR BASE APR - REPLACE MUNITIONS STRUCTU								
KADENA AMMO STO	RAGE ANNEX SITE # 1							
JAPAN								
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)					
27576	422-264	2406/LXFB123876	19,815					

22k fork lift and doors no less than 34ft wide by 20ft high. All facilities require 2-level Intrusion Detection System, steel bars at opening of 96 sq. in. or greater, and high security hasps IAW AFI 31-101. Projects should include testing and abatement of asbestos containing material and lead based paint. The Hayman Earth Covered Magazine meets this requirement.

CURRENT SITUATION: Kadena Air Base's 18th Munitions Squadron's (18 MUNS) storage area has approximately 406 facilities, 105 miles of roadway, 9 miles of KAB perimeter fence line, and 5,940 acres. 18 MUNS controls a stock pile of over 2,909,774.6 lbs, Net Explosive Weight, worth \$885,963,044. The 18 MUNS is responsible for the largest Munitions Storage Area in the Air Force. The 18th Munitions Squadron's mission is to provide conventional munitions maintenance, outload ammo by air and/or sea, and support units for training and contingencies to sustain PACOM, PACAF and 18th Wing. These structures were built with a service life of 50 years and were constructed between 1952 and 1965. During the construction of these facilities, all concrete was procured from local manufacturers on Okinawa. This concrete is made from limestone which is mined off the coast of Okinawa and contains salt, and with the heavy rain, and extremely humid climate, it causes expansion/stress and rapid oxidization of the rebar throughout the structures. This condition is the cause of the increased rate of corrosion. All 18 MUNS structures are painted on a reoccurring basis to slow corrosion. All preventative maintenance actions/materials have been utilized to their maximum extent. Due to the corrosion of the blast doors, uncontrollable concrete ceiling spalling, the age of the facilities, and the lack of features necessary to safely secure and store ammunition a complete infrastructure upgrade is required.

IMPACT IF NOT PROVIDED: Without these replacement earth covered igloos and their associated access roads and load/unload pads Kadena Air Base's ability to accomplish its primary mission will be significantly reduced. Using the smaller blast doors imposes a safety risk of storing larger munitions in the older igloos. Continued use will place personnel at a significant safety risk. These facilities are currently used as either inert storage, or have been rendered unusable, as the condition of the structure is unsafe due to cement ceiling spalls unexpectedly falling, causing a constant potential of damage to munitions and danger to personnel. Also, there are several deviations currently in place with 18th Security Forces due to numerous violations of facility security requirements. IAW AFI 31-101, requirements not being met include: exterior building and door lighting for Category I & II munitions, installation of Intrusion Detection System (IDS) for Category I & II storage structures, and structure windows/other openings must be sealed with material comparable to the adjacent walls. This project will present new facilities in compliance with aforementioned standards that will allow movement of munitions from deficient buildings. The lack of available facilities to accommodate efficient storage, handling, and transport of a munitions stockpile, that is not only growing in diversity but in physical size as well, greatly degrades our ability to support 18 WG OPLANS and contingency operations. Upgrade of infrastructure will afford 18 MUNS with new capability and flexibility to disperse TARRP UTCs and future mobility related munitions assets. The proposed locations of these facilities will allow more efficient utilization and

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE KADENA AIR BASE APR - REPLACE MUNITIONS STRUCTURES KADENA AMMO STORAGE ANNEX SITE # 1 JAPAN 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) 27576 422-264 2406/LXFB123876 19,815

consolidation of interior and geographic storage space.

ADDITIONAL: For all explosive facility designs, see AFMAN91-201 Ch 6. For 7-Bar Hayman ECM specifications and information, see The Department of Defense Explosives Safety Board (DDESB) Technical Paper (TP) 15, and STD 421-80-06. This project meets the criteria/scope specified in AFH 32-1084, "Facility Requirements." A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs. Therefore, a complete economic analysis was not performed and a certificate of exception is being prepared. The supporting costs for this project are higher than usual due to the distance (in excess of 1.5 miles) necessary to run the utilities and the large associated pavements. This project is eligible for host nation funding; however the US Forces Command of Japan states the project has extremely little chance of being funded in the foreseeable future. Base Civil Engineer: 011-81-6117-34-1807. Replace Above Ground Storage: 841 SM = 9049 SF. Storage Igloos: 2,676 SM = 28,793 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: YEN 122.4519

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

1. COMPONENT		FY 2017 MILITARY CO	ONSTRUC	TION PROJECT	DATA	2. DATE				
		(00	Ji gono							
3. INSTALLATI	ON AND L	OCATION		4. PROJECT 1	TITLE					
KADENA AIR BA KADENA AMMO S JAPAN	SE TORAGE A	NNEX SITE # 1		APR - REPLAC	CE MUNITIONS S	TRUCTURES				
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)				
27576		422-264	2406/	LXFB123876	19,	815				
12. SUPPLEMEN	TAL DATA	\:								
a. Estimate	d Design	n Data:								
(1) Statu	.s:	.								
(a) Da	te Desig	n Started		_	15	-JUN-15				
(b) Pa	rametrio	Cost Estimates use	ed to de	evelop costs		YES				
* (C) Pe	rcent Co	omplete as of 01 JAN	1 2016			15%				
* (d) Da	te 35% I	Designed			31	-MAR-16				
(e) Da	te Desig	n Complete			30	-SEP-16				
(f) En	ergy Stu	udy/Life-Cycle analy	rsis was	s/will be per	formed	YES				
(2) Basis	:	n Dofinitivo Dogion				NO				
(a) St (b) Wh	ere Desi	ign Was Most Recentl	y Used	-		NO				
(3) Total	Cost (d	c) = (a) + (b) or (d) + (e)):		(\$000)				
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		1,500				
(b) Al	1 Other	Design Costs				750				
(c) To	tal					2,250				
(d) Co	ntract					1,875				
(e) In	-house					375				
(4) Const	ruction	Contract Award				17 FEB				
(5) Const	ruction	Start				17 MAR				
(6) Const	ruction	Completion				19 JUN				
* Indicat which i cost an	es compl s compar 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. Equipmen N/A	t associ	iated with this proj	ect pro	ovided from o	ther appropri	ations:				

	F	Y 2017 I	MILITAI	RY CON	STRUC		ROGRA	M	2. DAT	E (YYYMMDD)
										20150911
3. INSTALLATION AND LOCATION				4. CON	IMAND				5. ARE	
YOKOTA AIR BASE				PACIFIC	C AIR FC	RCES			COS	
				(1)			(2)			1.79
6. PERSONNEL	(1) F	PERMAN	ENT	(2)	STUDEN	ITS	(3) \$	SUPPOR	TED	TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-Sep-15	444	2545	1499							4,488
b. END FY 2021	444	2545	1499							4,488
7. INVENTORY DATA (\$000)										
a. TOTAL ACREAGE	1,750									
b. INVENTORY TOTAL AS OF	30-Sep-	15								1,699,970
c. AUTHORIZATION NOT YET IN IN	NVENTO	RY								0
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)										32,020
e. PLANNED IN NEXT FOUR PROG	GRAM YE	EARS (F	Y 2018-2	2021)						0
f. REMAINING DEFICIENCY										74,457
g. GRAND TOTAL										1,806,447
8. PROJECTS REQUESTED IN THIS	PROGR	AM (FY	2017)							
	CAT	EGORY						CC	DST	DESIGN STATUS
CODE PRO.	JECT TI	TLE				<u>SCC</u>	<u>OPE</u>	<u>(\$0</u>	<u>)00)</u>	<u>START</u> <u>COMPLETE</u>
171-475 Construct CATM Facility						1,913	SM	8,2	243	Design Build
211-159 C-130J Corrosion Control H	Hangar					12,347	SM	23,	777	06/15 09/15
9. FUTURE PROJECTS IN NEXT FO	UR PRO	GRAM	EARS ((FY 2018	-FY 2021)	TOTAL	32,	020	
							TOTAL		0	
R&M UNFUNDED REQUIREMENT (\$	M)						TOTAL	1	5.5	
10. MISSION OR MAJOR FUNCTION	is									
10. MISSION OR MAJOR FUNCTIONS Yokota Air Base is home to the 374th Airlift Wing (host unit) and is currently used for airlift missions throughout East Asia. The 374th includes four groups: operations, mission support, maintenance and medical. Each group manages a various number of squadrons in order to carry out the wing's mission. C-130J Aircraft are projected to arrive in 2017 to replace existing C-130H aircraft. Air Mobility Command (AMC) plans to establish a regional C-130J flight simulator training program for pilots and crew members at Yokota.										
11. OUTSTANDING POLLUTION AN	DSAFE	I Y DEFI	CIENCIE	=5 (FY 2)	U17 - FY	2021)			0	
a. Air Pollution									U	
b. Water Pollution									0	
c. Occupational Safety and Heal	th							1	0	
d. Other Environmental									0	
							ΤΟΤΑΙ		0	
DD Form 1390 .IUI 1999		PR	EVIOUS F			TE			-	

1. COMPONENT		FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE		(computer ge	nerate	d)					
3. INSTALLATION	, SIT	E AND LOCATION		4. PROJECT TITLE						
YOKOTA AIR BASE	1			C-130	J CORROSION	I CONTROL HANG	AR			
YOKOTA AB SITE	# 1									
	ENT									
J. FROGRAM ELEM		6. CATEGORI CODE	/. RPSUID/P	ROUECI	NUMBER	J. FRODECI ((\$000)			
41132		211-159	3541/2	ZNRE15	3001A	2	3,777			
9. COST ESTIMATES										
				TT /M	OUNTERV	UNIT	COST			
		TIEW		0/M	QUANTITY		(\$000)			
PRIMARY FACILIT	IES						17,521			
CORROSION CONT	ROL HZ	ANGAR (211-159)		SM	4,226	3,517	(14,861)			
BLDG 906 REPAI	RS ANI	MODIFICATIONS (21)	L-111)	SM	3,951	523	(2,068)			
BLDG 907 REPAI	RS ANI	D MODIFICATIONS (21)	L-157)	SM	4,170	116	(483)			
SUSTAINABILITY	AND I	ENERGY MEASURES		LS			(109)			
SUPPORTING FACII	LITIES	3					3,742			
SITE IMPROVEME	NTS			LS			(41)			
PAVEMENTS				LS			(80)			
UTILITIES				LS			(587)			
COMMUNICATIONS				LS			(414)			
ENVIRONMENTAL	REMED	LATION		LS			(250)			
ARCHEOLOGICAL	MONITO	DRING		LS			(125)			
DEMOLITION				SM	3,345	671	(2,245)			
SUBTOTAL							21,263			
CONTINGENCY	(5	5.0%)					1,063			
TOTAL CONTRACT (COST						22,326			
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				1,451			
TOTAL REQUEST						-	23,777			
TOTAL REQUEST (1	ROUNDE	D)					23,777			

10. Description of Proposed Construction: Construct corrosion control facility utilizing conventional design and construction methods to accommodate the mission of the facility. Facility will consist of reinforced concrete foundation, steel structure, reinforced concrete walls, sloping roof, sliding metal doors and fire protection systems. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Demolish one building containing a total of 3,345 SM. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 800 Tons

11. Requirement: 4226 SM Adequate: 0 SM Substandard: 2201 SM

PROJECT: Construct a C-130J-30 1-Bay Corrosion Control Hangar Facility (New Mission).

REQUIREMENT: An adequate facility, properly sized and configured, is required to support C-130J-30 corrosion control operations in support of the current mission. The proposed C-130J-30 Corrosion Control Hangar will be designed to meet standards outlined in UFC 4-211-02 10 May 2012 Aircraft Corrosion Control and Paint

1. COMPONENT	FY 2017 MILITARY CONSTRU	2. DATE				
AIR FORCE	(computer gen					
3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TITLE				
YOKOTA AIR BASE		C-130J CORROSION CONTROL HANGAR				
YOKOTA AB SITE	# 1					
JAPAN						

		I. I. I. I. I. I. I. I. I. I. I. I. I. I	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
41132	211-159	3541/ZNRE153001A	23,777

Facilities. The C-130J-30 requires complete painting every 2 years and spot painting on an as needed basis. The aircraft also require washing every 15 days and prior to any paint operations. The facility will include an aircraft restorations bay, preparation and drying areas, abrasive blasting rooms, paint booths for mixing and/or applying paint, curing, tool storage, lockers, administrative support functions tool storage, eye washing systems, electrical, mechanical, water, communication, fire suppression/detection, air conditioning system with humidity environmental controls, utilities, pavements, associated site improvements, archeological monitoring and all necessary supporting facilities for a complete and usable facility.

CURRENT SITUATION: The 374 Air Wing is transitioning from the C-130H aircraft to the C-130J-30 aircraft. The C-130J-30 is 15 feet longer than the C-130H model. There is not currently a hangar at Yokota AB with corrosion control capabilities large enough to accommodate the extended length of C-130J-30 aircraft and the appropriate clearances required from hangar walls and doors as listed in Air Force Manual 32-1084. To support the 14 C-130J-30 assigned aircraft, the 374 Air Wing requires a facility can support the corrosion control requirements of the C-130J-30, is large enough to fit C-130J-30 aircraft, and meets the current standards for aircraft corrosion control.

IMPACT IF NOT PROVIDED: Without this facility, Yokota AB will be unable to provide adequate corrosion control to the 14 C-130J-30 assigned aircraft. Lack of this facility would significantly reduce readiness, and could result in degradation of operational capability, and may increase potential for a serious mishap. ADDITIONAL: This project meets the criteria/ scope specified in Air Force Manual 32-1084 and the Yokota Air Base Architectural Compatibility and Base Design Standards (1996). A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs, new construction. Therefore, a certificate of exception was submitted and approved. Base Civil Engineer: (011) 81-3117-55-7215. C-130J Corrosion Control Hangar: 4,226 SM = 45,486 SF; Repair Bldg 906, 3,951 SM = 42,513 SF; Repair Bldg 907, 4,170 SM = 44,869 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: YEN 122.4519

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 2017 MILITARY Co (compute	ONSTRUC er gene	TION PROJECT	DATA	2. DATE		
3. INSTALLATI	ON AND I	OCATION		4 PROTECT	PTTT.R			
YOKOTA AIR BA YOKOTA AB SIT JAPAN	SE E # 1			C-130J CORRO	DSION CONTROL	HANGAR		
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)		
41132		211-159	3541/2	ZNRE153001A	23,	777		
12. SUPPLEMEN	TAL DAT	A:						
a. Estimate	ed Design	n Data:						
(1) Statu								
(a) Da	te Desig	yn Started Goet Betimetos was			15	-JUN-15		
(D) Pa	rametric	c Cost Estimates use	a to a	evelop costs		YES		
* (C) Pe	ercent Co	Designed	2010		21	15%		
" (u) Da	te Dogi	m Complete			30	-MAR-10 -GED-16		
(e) Da	erav Sti	n compiece dv/Life-Cycle analy	reie waa	z/will be per	formed	VFC		
	lergy but	duy/hite-cycie analy	SIS Wa	s/will be per	TOTMED	165		
(2) Basis	:							
(a) St	andard o	or Definitive Design	1 –			NO		
(b) Wh	ere Desi	ign Was Most Recentl	y Used	-				
(3) Total	. Cost (d	(a) = (a) + (b) or (d)	l) + (e)):		(\$000)		
(a) Pr	oduction	n of Plans and Speci	ficatio	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				17 FEB		
(5) Const	ruction	Start				17 MAR		
(6) Const	ruction	Completion				19 JUN		
* Indicat which i cost an	es compl s compan d execut	letion of Project De rable to traditional rability.	efinitio . 35% de	on with Param esign to ensu	etric Cost Es re valid scop	timate e,		
b. Equipmen N/A	it associ	iated with this proj	ject pro	ovided from c	other appropri	ations:		

1. COMPONENT		FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE							
AIR FORCE		(
3. INSTALLATION YOKOTA AIR BASE YOKOTA AB SITE JAPAN	E INING MAINTENA	NCE (CATM)							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT C	OST (\$000)		
27576		171-475	3541/2	ZNRE06	53004	8	,243		
		9.	COST ESTIM	TES					
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)		
PRIMARY FACILITY	r						4,712		
CATM FACILITY	(171-4	475)		SM	1,913	2,415	(4,620)		
SUSTAINABILITY	AND I	ENERGY MEASURES		LS			(92)		
SUPPORTING FACII	LITIES	5					2,659		
PAVEMENTS				LS			(345)		
UTILITIES				LS			(192)		
FIRE PROTECTION	N SYSI	ГЕМ		LS			(329)		
COMMUNICATION	SYSTEN	1		LS			(119)		
SPECIAL CONSTR	UCTION	N (BULLET TRAPS)		LS			(1,010)		
DEMOLITION COS	TS (II	NCL ASBESTOS ABATEM	ENT)	SM	1,068	474	(506)		
SITE IMPROVEME	NT			LS			(158)		
SUBTOTAL							7,371		
CONTINGENCY	(5	5.0%)					369		
TOTAL CONTRACT (COST					-	7,740		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				503		
TOTAL REQUEST						-	8,243		
TOTAL REQUEST (F	ROUNDE	D)					8,243		
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON	I-ADD)				(45.0)		
10. Description of Proposed Construction: Construct a compliant Combat Arms Iraining Maintenance (CATM) facility utilizing economical design and construction methods to accommodate the mission of the facility. Project includes HVAC/ filtration system, targeting and safety features, administrative, educational, maintenance, and storage areas, weapons vault, Combat Arms Training Simulator (CATS), and small arms range. The existing sub-standard CATM facility (1,068 SM) will be demolished. 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 com	oly with Do	D ant	iterrorism	/force prote	ction		

requirements per UFC 4-010-01. Air Conditioning: 100 Tons

11. Requirement: 1913 SM Adequate: 0 SM Substandard: 1068 SM

PROJECT: Combat Arms Training Maintenance (CATM) facility. (Current Mission) REQUIREMENT: This project is required to provide a compliant CATM facility to support current mission operations for 3.8K Joint US Personnel in the Tokyo Region, Japan. Small arms range requires a minimum of fourteen positions on the firing line, adequate space allocation for support functions to include life, health, safety requirements, and a ventilation system capable of controlling exposure to lead and heavy metals/and or dust in accordance with federal regulations.

DD FORM 1391, DEC 99

 1. COMPONENT
 FY 2017 MILITARY CONSTRUCTION PROJECT DATA
 2. DATE

 AIR FORCE
 (computer generated)
 2. DATE

 3. INSTALLATION, SITE AND LOCATION
 4. PROJECT TITLE
 COMBAT ARMS TRAINING MAINTENANCE (CATM)

 YOKOTA AIR BASE
 COMBAT ARMS TRAINING MAINTENANCE (CATM)

 YOKOTA AB SITE # 1
 FACILITY

 JAPAN
 S. PROJECT MEMORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27576	171-475	3541/ZNRE063004	8,243

CURRENT SITUATION: Constructed in 1975, YAB's CATM facility is not compliant with current standards. The existing facility features only 10 firing positions and is both undersized and inadequate to train the 2.6K base and 1.2K joint personnel YAB supports. Executing 18-22 training courses on average per month, the Combat Arms Division faces ongoing training delays and deficiencies. For example, a shut-down of 45 days occurred during Feb - Oct 2013, impacting training mission. Training has been impeded by increasingly frequent facility-closures due to failing systems and rapidly deteriorating components that threaten the facility's mission by causing unsafe firing conditions. Short term repairs will continue to be required in order to mitigate mission stoppage. The existing range is not air conditioned resulting in extreme seasonal temperatures, lacks acoustic dampening measures to reduce noise levels, and is outfitted with an antiquated ventilation system requiring an unprecedented maintenance/cleaning contract to maintain safe levels of lead exposure. August 2012, Bioenvironmental Engineering (BE) discovered the ventilation system was excessively contaminated with lead dust. Subsequently, airborne lead exposure levels were monitored in accordance with OSHA general industry standard and instructors were identified as having Occupational and Environmental Exposure Limits (OEEL) above OSHA Permissible Exposure Limits (PEL). As a result, worker exposure monitoring was mandated quarterly, 8-times more frequent than the bi-annual standard. The facility lacks hygiene functions such as hand-washing stations, shower and laundry areas required to minimize secondary lead exposure and contamination. A weapons cleaning area is not provided, forcing personnel to clean weapons in the classroom and further increasing lead exposure and contamination. No other facility in the greater Tokyo Region, Japan, is available to support YAB's Combat Arms Training Maintenance mission operations. IMPACT IF NOT PROVIDED: Existing CATM facility will continue to threaten current mission operations, requiring significant risk management and on-going repairs to mitigate serious life, health, safety hazards and resulting mission stoppages. Combat Arms faces significant challenges in managing an inadequate and undersized facility while maintaining training and operational requirements in support of deployments, base and regional defense, and security. If the project is not provided and the facility closes, the missions of PACAF, 5AF, and the 374th AW will be significantly degraded as well as the missions YAB supports to include AFRICOM, CENTCOM, NORTHCOM, EUCOM, and SOUTHCOM. A new compliant facility will guarantee a safe and fully-capable combat arms training facility, thus safeguarding critical mission operations. ADDITIONAL: This project is not eligible for Host Nation funding. This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility

meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements" and Engineering Technical Letter 11-18, "Small Arms Range Design and Construction". An economic analysis evaluating options for accomplishing the subject project determined that there is only one reasonable method to meet operational requirements: new construction. Base Civil Engineer: (011) 81-3117-55-7215. CATM Facility: 1,913 SM = 20,595SF; Demolition: 1,068 SM = 11,496 SF FOREIGN CURRENCY: FCF Budget Rate Used: YEN 122.4519 JOINT USE CERTIFICATION: This facility can be used by other components on an "as

I. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated) 2. DATE 3. INSTALLATION, SITE AND LOCATION (COMPAT ARE STAINING MAINTENANCE (CATH)) (COMPAT ARE STAINING MAINTENANCE (CATH)) FACILITY 4. PROJECT TITLE (COMPAT ARE STAINING MAINTENANCE (CATH)) FACILITY 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RFGUID/PROJECT NUMBER 8. PROJECT COST (\$000) 27576 171-475 3541/ZMRE063004 8.243 valiable" basis; however, the scope of the project is based on Air Force equirements. Force										
AIR FORCE (COMPUTE generated) 3. INSTALLATION, SITE AND LOCATION VOKOTA ARE ARSE VOKOTA ARE SITE # 1 JARM 5. FROGENM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) 27576 171-475 3541/ZNRE063004 8.243 vailable* basis; however, the scope of the project is based on Air Force equirements.	1. COMPONENT		FY 2017 MILI	TARY CONSTR	UCTION PROJECT D	ATA	2. DATE			
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE CONCATA AIR BASE COMBAT ARMS TRAINING MAINTENANCE (CATH) XONCATA AIR DAST 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) 27576 171-475 3541/ZMRE063004 8.243 vailable* basis; however, the scope of the project is based on Air Force equirements.	AIR FORCE		((computer ge	(enerated)					
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) 27576 171-475 3541/ZNRE063004 8,243 vailable" basis; however, the scope of the project is based on Air Force equirements.	3. INSTALLATION YOKOTA AIR BASE YOKOTA AB SITE JAPAN	, SITI # 1	E AND LOCATION		4. PROJECT TITI COMBAT ARMS TRA FACILITY	.E LINING MAINTEN	ANCE (CATM)			
27576 171-475 3541/2RRE063004 8,243	5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	PROJECT NUMBER	8. PROJECT	COST (\$000)			
vailable" basis; however, the scope of the project is based on Air Force equirements.	27576		171-475	3541/	ZNRE063004		8,243			
	requirements.									

1. COMPONENT AIR FORCE		FY 2017 MILITA	RY CO	NSTRUC	TION PROJ rated)	JECT	DATA	2. DATE				
3. INSTALLATI YOKOTA AIR BA YOKOTA AB SIT JAPAN	ON AND I SE E # 1	OCATION			4. PROJE COMBAT A (CATM) F	ECT T ARMS FACIL	ITLE TRAINING MAIN LITY	ITENANCE				
5. PROGRAM EL	EMENT	6. CATEGORY C	ODE	7. PRO	JECT NUMB	BER	8. PROJECT CC	DST (\$000)				
27576		1/1-4/5		3541/	ZNREU63U	04	8,	243				
12. SUPPLEMEN	TAL DAT	A:										
a. Estimated Design Data:												
(1) Status: (a) Date Design Started 15-JUN-15												
(b) Parametric Cost Estimates used to develop costs YES												
* (c) Pe	ercent Co	omplete as of 01	L JAN	2016				15%				
* (d) Da	te 35% 1	Designed					31	-MAR-16				
(e) Da	te Desig	gn Complete					30	-SEP-16				
(f) Er	ergy Stu	udy/Life-Cycle a	analy	sis was	s/will be	per	formed	YES				
(2) Basis (a) St (b) Wh	 (2) Basis: (a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used - 											
(3) Total	Cost ((a) = (a) + (b) c	or (d) + (e)	:			(\$000)				
(a) Pr	oduction	n of Plans and S	Speci	ficatio	ons			0				
(b) Al	.1 Other	Design Costs	-					416				
(c) To	otal							416				
(d) Co	ntract							0				
(e) In	-house							0				
(4) Const	ruction	Contract Award						17 FEB				
(5) Const	ruction	Start						17 MAR				
(6) Const	ruction	Completion						19 DEC				
* Indicat which i cost an	es compi s compan d execut	letion of Projec rable to traditi tability.	t De ional	finitic 35% de	on with Pasign to	aramo	etric Cost Es re valid scop	timate e,				
b. Equipmer	t assoc:	iated with this	proj	ect pro	ovided fr	om o	ther appropri	ations:				
FISCAL YEAR PROCURING APPROPRIATED COST EQUIPMENT NOMENCLATURE APPROPRIATION OR REQUESTED (\$000)												
RANGE & I	45											

	F١	(2017 I	E (YYYMMDD)							
3. INSTALLATION AND LOCATION							00000	16.1	5. ARE/	
					SIAIE	SAIRFO	ORCES	IN	003	
	(4) [ITC	(2) (I
0. FERSONNEL										TOTAL
3 AS OF 30-Sep-15	104	976	Q/1				10	183	55	2 260
a. AS OF 30-36P-13	104	970	941	0	0	0	10 Q	180	55	2,209
	101	900	942	0	0	0	9	100	55	2,240
	3427									
	30 Son	15								1 208 065
										18 366
				(2017)						13,300
				(2017)						13,449
e. PLANNED IN NEXT FOUR PRO	GRAW T	EARS (/	- 1 2018	-2021)						00.450
										92,150
g. GRAND IOTAL	DDOOF		(0017)							1,422,930
8. PROJECTS REQUESTED IN THIS	PROGR		2017)							
	CAI	EGORY						CC	051	DESIGN STATUS
<u>CODE</u> <u>PRO</u>	JECT TI	<u>TLE</u>				<u>SCC</u>	<u>OPE</u>	<u>(\$0</u>	<u>)00)</u>	DESIGN BUILD
130-142 Airfield Fire/Crash Rescue	Station					3,626	SM	13,	449	
9. FUTURE PROJECTS IN NEXT FO	DUR PRO	DGRAM	YEARS	(FY 2018 FUTU	3-FY 202 JRE PRO	DJECTS	TOTAL	13,	<u>449</u> 0	
R&M UNFUNDED REQUIREMENT (S	5M)						TOTAL	1	.2	
10. MISSION OR MAJOR FUNCTIO	NS							-		
Home of the 39th Air Base Wing. Incir forces while developing the professior	lik missio nal talent	on is to p s of our i	rovide fu men and	ull spectru I women.	um, work	d-class f	orward o	operating	base sup	oport to expeditionary
11. OUTSTANDING POLLUTION AN	ID SAFE	TY DEF	ICIENC	IES (FY 2	2017 - F	Y 2021)				
a. Air Pollution									0	
b. Water Pollution									0	
c. Occupational Safety and Hea	lth								0	
d. Other Environmental									0	
							TOTAL		0	
		001		DITIONU						

[
1. COMPONENT	. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE										
AIR FORCE	DRCE (computer generated)										
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE							
INCIRLIK AIR BA	SE ADA	NA		AIRFI	ELD FIRE /	CRASH RESCUE	STATION				
INCIRLIK AB SIT	E # 1										
TURKEY											
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000)											
27576		130-142	2370,	LJYC1/	.33003	1	.3,449				
9. COST ESTIMATES											
ITEM U/M QUANTITY COST											
ITEM U/M QUANTITY (\$000)											
PRIMARY FACILIT	IES						10,108				
AIRFIELD FIRE/	CRASH	RESCUE STATION (130-	-142)	SM	3,626	2,733	(9,910)				
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(198)				
SUPPORTING FACI	LITIES			ĺ		ĺ	1,504				
TEMPORARY FACIL	LITY			LS			(200)				
UTILITIES				LS			(254)				
PAVEMENTS				LS			(200)				
SITE IMPROVEME	NTS			LS			(190)				
DEMOLITION				SM	2,358	140	(330)				
COMMUNICATION	SUPPOR	т		LS			(150)				
EMERGENCY GENE	RATOR			LS			(180)				
SUBTOTAL						-	11,612				
CONTINGENCY	(5.0%))					581				
TOTAL CONTRACT	COST					-	12,192				
SUPERVISION. IN	SPECTI	ON AND OVERHEAD	(6.5%)				,				
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				464				
TOTAL REQUEST						-	13,449				
TOTAL REQUEST (1	ROUNDE	D)					13,449)				
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				(725				
10. Descripti	on of	Proposed Construc	ction: Pr	ovide	drive-thr	ough truck	bavs, roll				
up doors, conc	rete	block walls, and i	reinforced	slab	o-on-grade.	Construct	flat built-				
up and sloped	barre	l tile roofs. Fac:	ility will	be d	lesigned as	a permanen	t				
construction i	n acc	ordance with DoD W	Unified Fa	cilit	ies Criter	ia (UFC) 1-	200-01,				
General Buildi	.ng Re	quirements and UF	C 1-200-02	, Hig	h Performa	ince and Sus	tainable				
per UFC 4-010-	.remen 01. T	nclude apparatus i	room. livi	ng gu	arters, ad	ministrativ	r buildings				
exercise, trai	.ning,	recreation, suppl	ly and ala	rm ro	oms.						
Air Conditioni	ng:	100 Tons	-								
11. Requiremen	t: 36	26 SM Adequate	: 0 SM	Subst	andard: 23	358 SM					
PROJECT: Airfield Fire/Crash Rescue Station (Current Mission)											
REQUIREMENT: A properly sized facility is required for current vehicle fleet											
consist of 1-P23, 1-T3000, 1-STRIKER, 2-P22s, 1-P24, 2-P19s, 1-P26, 2-SUVs, 1-MRT,											
1-HAZMAT VAN, 1-HAZMAT TRUCK, 2-PU Trucks, and a foam trailer for fire/crash rescue											
and structural fire response actions. Facility will have a vehicle exhaust system,											
separate perso	separate personnel protective equipment cleaning area, and a central alarm center.										
proper fire wa	proper fire warning/suppression system are required to support the base and										
proper fire warning/suppression system are required to support the base and airfield fire department mission. Due to the lack of space, the new facility will											
DD FORM 1391	DEC 9	9 Previou	us edition	s are	obsolete		Page No.				
							· · · · · · · ·				

DD FORM 1391, DEC 99

FEBRUARY 2016

Therefore, no economic analysis was needed or performed. A certificate of exception has been prepared. Base Civil Engineer: 011-90-322-316-6423. Airfield Crash/Fire Rescue Station: 3,626 SM = 39,016 SF. FOREIGN CURRENCY: FCF Budget Rate Used: LIRA 2.8346 JOINT USE CERTIFICATION: This facility can be used by other components on an "as

accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements: new construction.

Facility Requirements. A preliminary analysis of reasonable options for

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

IMPACT IF NOT PROVIDED: The existing fire station will continue to operate with many safety and building code violations, without a vehicle exhaust extraction system exposing personnel to toxic vehicle exhaust and without adequate space to meet Air Force Requirements. Vehicles will continue to be parked outside in order to meet response times because of the slow egress from the current facility. ADDITIONAL: This project meets applicable criteria/scope specified in AF Manual 32-1084, Facility Requirements. This project is partially eligible for NATO funding. A precautionary pre-finance statement will be submitted in the event it becomes eligible. This project meets the criteria/scope specified in UFC 4-730-10 Fire Stations, Air Force Fire Station Design Guides and Air Force Hand Book 32-1084

stability, age and space availability are not adequate to provide and accommodate all fire protection functions. The structure itself is barely standing from the result of the earthquake back in 1999 and flooding in 1995; it is beyond economical repair. The current fire truck stalls are not wide enough to effectively and safely maneuver the current vehicle inventory into and out of the station, which adversely effects the response times. Fire vehicle exhaust emissions are not extracted to the outside of the facility. A separate personnel protective equipment cleaning area is not provided. There are not enough vehicle bays to house all of our vehicles; parking vehicles outside does not keep fire trucks protected from the harsh weather, especially in summer. Existing facilities have numerous safety and building code violations.

be constructed on the same site as the existing facility; for that reason, a temporary facility is required to house the current mission during the construction period. Facilities 370 and 372 will be demolished.

CURRENT SITUATION: The existing fire station is over 50 years old and structural

			-					
3. INSTALLATION, SI	TE AND LOCATION		4. PROJECT TITLE					
INCIRLIK AIR BASE A	DANA		AIRFIELD FIRE / CRASH RESCUE STATION					
INCIRLIK AB SITE #	1							
TURKEY								
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	ST (\$000)			
27576	130-142	2370/	/LJYC133003	13	,449			

FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)

1. COMPONENT

ATR FORCE

	1						T		
1. COMPONENT		FY 2017 MILITARY	CONSTR	UCTION P	ROJECT	DATA	2	. DATE	
		(compu	cer ge						
3. INSTALLATI	ON AND I	JOCATION		4. PROJECT TITLE					
INCIRLIK AIR	BASE ADA	NA		AIRFIEL	D FIRE	/ CRASH RESCU	JES	STATION	
TURKEY									
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. P	ROJECT N	UMBER	8. PROJECT CC)ST	(\$000)	
27576		130-142	33003	13,	,449)			
12. SUPPLEMEN	NTAL DAT	A:							
a. Estimate	ed Design	n Data:							
(1) Proje	ct to be	accomplished by d	esign-	build pr	cocedur	es			
(2) Basis	:								
(a) St (b) Wi	tandard onere Des	or Definitive Desig ign Was Most Recen	yn - tly Us∉	ed -				NO	
(3) All O	ther Des	ign Costs						538	
(4) Const	ruction	Contract Award					17	JUN	
(5) Const	ruction	Start					17	SEP	
(6) Const	ruction	Completion					19	AUG	
(7) Energ	y Study/	Life-Cycle analysi	s was/	will be	perfor	med		YES	
EQUIPMEN:	I NOMENC	PRC	CURING	APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)	
FURNISHI	NGS		340	0	2	2018		250	
KITCHEN	EQUIPMEN	т	340	0	2	2018		125	
COMMUNIC	ATION EQ	UIPMENT	340	0	2	2018		250	
EXERCISE	EQUIPME	NT	340	0	2	2018		100	

1. COMPONENT AIR FORCE	FY 2017	FY 2017 MILITARY CONSTRUCTION PROGRAM								
3. INSTALLATION AND LOCATION			4. COM	MAND				5. ARE		JCTION
AL DHAFRA AIR BASE					~	_ /		COS	TINDEX	
UNITED ARAB EMIRATES										
6. PERSONNEL	(1) PERMAN	(1) PERMANENT (2) STUDENTS (3) SUPPORTED								
	OFFICER ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	IC	DIAL
a. AS OF 30-Sep-15	Approx	3409								3,409
b. END FY 2021	Approx	3409								3,409
7. INVENTORY DATA (\$000)	-					-				
a. TOTAL ACREAGE	Note 1									
b. INVENTORY TOTAL AS OF	30-Sep-15									Note 1
c. AUTHORIZATION NOT YET IN IN	IVENTORY									0
d. AUTHORIZATION REQUESTED	IN THIS PROGR	AM (FY	2017)							35,400
e. PLANNED IN NEXT FOUR PROG	RAM YEARS (F	Y 2018-2	2021)							0
f. REMAINING DEFICIENCY										0
g. GRAND TOTAL										35,400
8. PROJECTS REQUESTED IN THIS	PROGRAM (FY	2017)								
	CATEGORY	,					CO	ST	DESIG	I STATUS
CODE PRO.	JECT TITLE				<u>SCC</u>	<u>DPE</u>	<u>(\$0</u>	<u>00)</u>	<u>START</u>	COMPLETE
211-152 Large Aircraft Maintenance	Hangar				6,000	SM	35,	400	06/15	09/16
9. FUTURE PROJECTS IN NEXT FO	UR PROGRAM	YEARS (FY 2018	-FY 2021))	TOTAL	35,	<u>400</u>		
R&M UNFUNDED REQUIREMENT (\$	M)					TOTAL)		
10. MISSION OR MAJOR FUNCTION	is									
Established in Southwest Asia in Janua the most diverse combat wings in the A air defense battalion and a Navy aerial Note 1: Not a US owned installation; th	ary 2002, the 380 ir Force. The wir maritime surveill nerefore we do no	th Air Ex ng is com ance deta ot have re	peditiona prised of achment. eal prope	ry Wing 4 group rty data	is home t s and 16	to appro squadro	ximately ons. Its m	3,000 pe ission pa	rsonnel com Irtners incluc	pleting one of le an Army
11. OUTSTANDING POLLUTION AN	D SAFETY DEFI		S (FY 2)	017 - FY	2021)					
a. Air Pollution							()		
b. Water Pollution							()		
c. Occupational Safety and Heal	th						()		
d. Other Environmental							()		
						TOTAL	()		

DD Form 1390, JUL 1999

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE										
AIR FORCE		((computer gen	erate	d)					
3. INSTALLATION	, SIT	E AND LOCATION	4. PF	ROJECT TITL	E					
AL DHAFRA AIR B	ASE		AIRCRAFT N	MAINTENANCE HA	NGAR					
AL DHAFRA AB SI	TE # 3	1								
UNITED ARAB EMIRATES										
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PF	ROJECI	NUMBER	8. PROJECT C	OST (\$000)			
27576		211-152	1575/1	DHAF15	2900	3	5,400			
		9.	COST ESTIMA	TES	-					
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)			
PRIMARY FACILITI	EES						17,683			
MAINTENANCE HA	NGAR	(211-152)		SM	6,000	2,889	(17,336)			
SUSTAINABILITY	& ENI	RGY MEASURES		LS			(347)			
SUPPORTING FACII	LITIES	l		İ		İ İ	14,262			
SITE IMPROVEME	NTS			LS			(1,395)			
PAVEMENTS				LS			(3,444)			
UTILITIES				LS			(4,186)			
COMMUNICATIONS				LS			(2,261)			
FIRE PROTECTION	N			LS			(1,281)			
ANTI-TERRORISM	/FORCE	E PROTECTION		LS			(1,695)			
SUBTOTAL							31,945			
CONTINGENCY	(5	5.0%)					1,597			
TOTAL CONTRACT (COST					-	33,542			
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				2,180			
TOTAL REQUEST						-	35,722			
TOTAL REQUEST (F	ROUNDE	:D)					35,400			
EQUIPMENT FROM (THER	APPROPRIATIONS (NON	I-ADD)				(600.0)			
10. Descripti	on of	Proposed Constru	uction: Des	sign a	and constr	uct a 6000 \$	3M single-			
bay aircraft m	ainte	enance hangar, siz	zed for KC-1	L0, C	-17 and KC	C-46 aircraft	; with fuel			
cell maintenan	ce ca	pabilities, fire	detection a	and s	uppression	n, environmer	ntal			
control, aircr	aft a	ccess to the apro	on, and inte	erior	office sp	pace. Project	; will			
include all ci	V11, d all	structural, mecha	inical, elec	tric	al, commun	lication, Ill	e to and			
useable facili	tv. E	Building construct	ion type wi	ill b	e insulate	ed metal stru	cture with			
partial CMU wa	lls f	for offices, concr	rete foundat	ion,	floor sla	ab to support	aircraft			
jacking, and s	truct	ural steel framed	l doors. Sup	port	ing facili	ties will in	nclude			
pavement work	to al	low access from t	the apron to	b the	hangar. E	acility will	L be			
designed as pe	rmane	ent construction i	in accordance	e wi	th DoD Uni	fied Facilit	ies viek			
Criteria (UFC)	7 212 9 215	stainable Building	r Requirement	reme:	This pro-	iect will con	Hign Dly with			
DOD and CENTCOM anti-terrorism/force protection requirements per UFC 4-010-01.										
11. Requirement: 6000 SM Adequate: 0 SM Substandard: 0 SM										
PROJECT: Large Aircraft Maintenance Hangar (Current Mission)										
REQUIREMENT: A single-bay maintenance hangar is required to support the current										
fleet of KC-10s that sustain aerial refueling operations in the CENTCOM AOR, and										
other large fr	other large frame aircraft at Al Dhafra AB, United Arab Emirates. More than 50									
aircraft will	ircraft will utilize this facility including E-3 AWACS, F-15 Eagle, F-22 Raptor,									
KC-46, U-2 and	RQ-4	Global Hawk. Thi	is fleet of	airc	raft at Al	Dhafra AB b	las a			
L										

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE AL DHAFRA AIR BASE LARGE AIRCRAFT MAINTENANCE HANGAR AL DHAFRA AB SITE # 1 UNITED ARAB EMIRATES 5. PROGRAM ELEMENT 6. CATEGORY CODE 8. PROJECT COST (\$000) 7. RPSUID/PROJECT NUMBER 27576 1575/DHAF152900 211-152 35,400

diverse set of missions to include crucial reconnaissance, strategic fighter capability and essential air refueling support for the entire AOR. There is a critical requirement for Fuel Cell Maintenance, Phasing Maintenance, and Repair and Reclamation Maintenance. Fuel cell maintenance must be conducted indoors and the hangar will include adequate space per AFI 21-101 for opening fuel cell panels, crawling inside, and inspecting/repairing pumps and other critical components. The U-2 also requires an area to complete phase maintenance inspections, an annual requirement in a controlled environment. The Repair and Reclamation Team is tasked with repairing rigs and adjusting flight control system which require the surrounding environment to maintain a consistent temperature and humidity to perform repairs. All of these critical maintenance functions need to be completed inside an environmentally controlled facility to prevent damage to the aircraft and sustain a safe work space for the 380th Expeditionary Maintenance Group.

CURRENT SITUATION: The 380th AEW has been identified as an enduring location and currently has no permanent hangar facilities. The 380th Expeditionary Maintenance Group is not capable of maintaining over 50 critical aircraft they service at Al Dhafra AB due to a lack of conditioned space that they need to fulfill mission requirements. In 2013, five different mission sorties were delayed or lost due to lack of indoor maintenance space. Because the location of the current fuel cell is on an active apron, entire crew shifts can be lost when fuel cell maintenance is being conducted. Fuel Cell crews must stop all work when an aircraft is taxiing to and from the runway. In addition, extreme weather, including temperatures over 120 deg F in the summer, caused safety issues with conducting maintenance outside during the summer months. Maintenance crews can only work extensive in-tank fuels repairs and flight control rigging at night because of these safety issues. This restriction leads to a loss of aircraft availability which causes significant mission impacts. Currently, repair and reclamation can only be done during the cooler time of day which limits the amount of work that can be completed. Similarly, during the extreme temperatures, engine changes and other extensive repairs are very difficult and take longer because of the dangerous high temperature of the metal of the aircraft. During a 6-month period in 2013, 85.5% of maintenance write-ups for the E-3 aircraft and 60.1% of maintenance write-ups for KC-10 took place from April-October with 124 heat stress indications. Beside the temperatures at Al Dhafra Air Base, there is also a need to protect valuable Air Force assets for other environmental hazards such as high winds, dust, and humidity. Performing these maintenance functions off site at other locations in the AOR results in mission delays and substantial additional costs. Last year alone, \$10M was lost due to rotating aircraft out of Al Dhafra AB for maintenance. IMPACT IF NOT PROVIDED: Al Dhafra Air Base will continue operating with limited aircraft maintenance capability which will significantly degrade aerial refueling capability in the AOR. Lacking a conditioned space to perform critical maintenance, away from all environmental hazards, maintainers will have to continue improvising maintenance procedures and practices that could be dangerous to the Airman working on the aircraft. In addition to the dangerous conditions, availability of critical aircraft is lost by rotating aircraft out of Al Dhafra Air Base for routine maintenance instead of making the repairs locally. Finally, the

1. COMPONENT	FY 2017 MILI	FY 2017 MILITARY CONSTRUCTION PROJECT DATA									
AIR FORCE	((computer generated)									
3. INSTALLATION	, SITE AND LOCATION	ITLE									
AL DHAFRA AIR B	ASE	LARGE AIRCRAE	T MAINTENANCE HANGAR								
AL DHAFRA AB SI	TE # 1										
UNITED ARAB EMI	RATES										
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)								
27576	211-152	35,400									

Air Force could continue to lose \$10M a year by rotating aircraft for fuel cell maintenance, phasing maintenance, and repair and reclamation maintenance. Maintenance time and aircraft down-time will continue to be hampered by airlift support LIMFACs in the AOR.

ADDITIONAL: AFMAN 32-1084 authorizes three hangar bay spaces based on Table 3.1, assuming steady-state assignment of 12 KC-10 aircraft. This project meets the criteria/scope specified in the AFMAN 32-1084, Facility Requirements. Siting and sizing meets requirements of UFC 3-260-1 and 4-211-01N. A preliminary analysis of reasonable options for meeting this requirement (status quo, renovation, new construction) was accomplished. It indicates there is only one option that will meet the operational requirements: new construction. A certificate of exception is being prepared. This project is supported by CENTCOM and is on the Master Plan Priority List (MPPL) as a top priority. AFCENT POC: 803-895-8843. Maintenance Hangar, 6,000 SM = 64,583 SF.

JOINT USE CERTIFICATION: This hangar can be used by other components on an asavailable basis; however, the scope of the project is based on Air Force requirements. The project will aid these organizations conducting ongoing Overseas Contingency Operations (OCO).

1. COMPONENT AIR FORCE		FY 2017 MILITA	RY Computo	ONSTRUC	TION PROJECT	DATA	2. DATE					
3. INSTALLATI	ON AND I	OCATION			4 PROTECT	ጥ ፐጥፐ. <u></u>						
AL DHAFRA AIR AL DHAFRA AB UNITED ARAB E	BASE SITE # 1 MIRATES	-			LARGE AIRCR	AFT MAINTENANG	CE HANGAR					
5. PROGRAM EL	EMENT	6. CATEGORY C	ODE	7. PRO	JECT NUMBER	8. PROJECT CO	DST (\$000)					
27576		211-152		1575/	DHAF152900	35,	400					
12. SUPPLEMEN	TAL DATA	A:										
a. Estimate	d Design	n Data:										
(1) Status:												
(a) Date Design Started 15-JUN-15												
(b) Pa	(b) Parametric Cost Estimates used to develop costs YES											
* (c) Pe	ercent Co	omplete as of 0	1 JAN	1 2016			15%					
* (d) Da	te 35% I	Designed				29	-FEB-16					
(e) Da	te Desig	yn Complete				30	-SEP-16					
(f) En	ergy Stu	dy/Life-Cycle	analy	ysis was	s/will be pe	rformed	YES					
(2) Basis	:											
(a) St	andard o	or Definitive D	esigr	1 -			NO					
	lere Desi	Ign was most Re	centi	Ly Usea	-							
(3) Total	Cost (c	(a) = (a) + (b)	or (d	l) + (e)	:		(\$000)					
(a) Pr	oduction	n of Plans and	Speci	ficatio	ons		2,124					
(b) Al	1 Other	Design Costs					1,062					
(c) To	tal						3,186					
(d) Co	ntract						2,655					
(e) In	-house						531					
(4) Const	ruction	Contract Award					17 FEB					
(5) Const	ruction	Start					17 MAR					
(6) Const	ruction	Completion					19 JUN					
* Indicat which i cost an	es compl s compan d execut	letion of Project rable to tradit. cability.	ct De ional	efinitic 1 35% de	on with Para Asign to ens	metric Cost Es ure valid scop	timate e,					
b. Equipmen	it associ	iated with this	pro	ject pro	ovided from	other appropri	ations:					
EQUIPMEN	I NOMENC	LATURE	P. APF	ROCURIN PROPRIAT	FISC G APPRO LION OR R	AL YEAR OPRIATED EQUESTED	COST (\$000)					
FURNITURE, FIXTURES, & EQUIP 3400 2018												
COMMUNIC	2018	500										

		F	Y 2017 I	MILITAI	RY CON	STRUC	TION P	ROGRA	M	2. DAT	E (YYYMMDD)	
3 INSTALLATION AND						ΜΔΝΠ						
RAF CROUGHTON	LOOAHON								N	5. ARE COS		
					EUROP	E		JKCL31			1 11	
6. PERSONNEL	(1) F	PERMAN	ENT	(2)	STUDEN	ITS	(3) 5	SUPPOR		1.1.1		
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	TOTAL	
a. AS OF 30-S	Sep-15	23	338	174	0	0	0	0	4	182	721	
b. END FY 20	021	23	338	172	0	0	0	0	4	182	719	
7. INVENTORY DATA	(\$000)											
a. TOTAL ACREAGE		694										
b. INVENTORY TOTA	L AS OF	30-Sep-	15								583,734	
c. AUTHORIZATION I	NOT YET IN IN	VENTO	RY								132,000	
d. AUTHORIZATION	REQUESTED	IN THIS	PROGR	AM(FY)	2017)						69,582	
f. PLANNED IN NEX	r four proc	GRAM YE	EARS (F	Y 2018 -	FY 2021)					5,200	
g. REMAINING DEFIC	CIENCY										13,550	
h. GRAND TOTAL											804,066	
8. PROJECTS REQUES	STED IN THIS	PROGR	AM (FY 2	2017)								
CATEGORY									CC	DST	DESIGN STATUS	
CODE	PRO	JECT TI	TLE				<u>SC</u>	<u>DPE</u>	<u>(\$(</u>	<u>000)</u>	START COMPLETE	
141-456 JIAC Consol	idation, Ph3						12,295	12,295 SM 53			DESIGN-BUILD	
730-832 Main Gate C	omplex						1,386	SM	16	,500	DESIGN-BUILD	
9. FUTURE PROJECTS 740-884 Child Develo	S IN NEXT FO	UR PRO , B440	GRAM Y	EARS (FY 2018	- FY 202	1) 900	TOTAL SM TOTAL	69 5,2 5 ,2	582 200 200	- -	
	LIIREMENT (\$	M)						τοται	5	8		
10. MISSION OR MAJO		ls										
Provide outstanding inst of operations. Supports supporting 25% of all Eu	allation suppor NATO, EUCOI iropean Theatr	rt, service M, CENT re to CON	es, force COM, Al NUS com	protectio FSPC, D Imunicat	on, and w DoS & Mo tions.	vorldwide D operat	commu ions. Su	nications stain ove	to the ver 420 co	varfighter	across the entire spectrum and control circuits	
11. OUTSTANDING PC	DLLUTION AN	D SAFE	TY DEFI	CIENCIE	E S (FY 20)17 - 202	1)					
a. Air Pollution										0		
b. Water Pollution										0		
c. Occupational Sa	fety and Heal	th								0		
d. Other Environm	ental									0		
								TOTAL		0	-	

DD Form 1390, JUL 1999

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE		
AIR FORCE	IR FORCE (computer generated)								
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	5	-		
RAF CROUGHTON RAF CROUGHTON S UNITED KINGDOM	RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM				JOINT INTELLIGENCE ANALYSIS COMPLEX CONSOLIDATION, PH3				
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
27576		141-456	1638,	EXSW1	43013		53,082		
		9. C	TES						
ITEM					QUANTITY	UNIT	COST (\$000)		
PRIMARY FACILIT	IES						38,698		
REGIONAL JOINT	INTEL	TRAINING FAC (141-4	56)	SM	2,276	5,470	(12,450)		
PHYSICAL FITNE	SS TRA	INING FACILITY (740-	674)	SM	7,119	2,500	(17,798)		
COMMISSARY (74	0-266)			SM	2,900	2,700	(7,830)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(621)		
SUPPORTING FACIN	LITIES						8,857		
UTILITIES				LS			(2,775)		
SITE IMPROVEME	NTS			LS			(1,676)		
PAVEMENTS, WAL	KWAYS,	CURB, GUTTER, LIGHT	ING	LS			(1,153)		
DEMOLITION				SM	1,826	250	(457)		
EXTERIOR COMMUN	NICATI	ONS		LS			(1,456)		
SPORTS FIELD R	ELOCAT	ION		LS			(718)		
EMERGENCY GENE	RATORS			LS			(621)		
SUBTOTAL						-	47,554		
CONTINGENCY	(5.0%)					2,378		
TOTAL CONTRACT	COST					-	49,932		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(2.5%)				1,248		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				1,902		
TOTAL REQUEST						-	53,083		
TOTAL REQUEST (1	ROUNDE	D)					53,082)		
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				(3,150		
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ct Regiona	al Joint Int	elligence		
Training Facility (RJITF), Physical Fitness Training Facility and a Commissary using conventional design and construction methods to accommodate the missions of									
constructed as	part	of the RJITF. Fa	acilities	will	be designe	ed as perman	ent		
construction i	n acc	ordance with the I	DoD Unifie	d Fac	ilities Cr	riteria (UFC) 1-200-01,		
General Buildi	.ng Re	quirements and UFC	2 1-200-02	, Hig	h Performa	ance and Sus	tainable		
Building Requirements. This project will comply with DoD antiterrorism/force									
protection requirements per UFC 4-010-01.									
Air Conditioning: 250 Tons									
11. Requirement: 10019 SM Adequate: 0 SM Substandard: 8402 SM									
PROJECT: Construct Joint Intelligence Analysis Complex, Phase 3 (New Mission)									
REQUIREMENT:	This	project is require	ed to prov	ide a	purpose-h	ouilt Joint			
Intelligence A	nalys	(PAEM) Traduction	Complex w	hich	recapitali	zes and con	solidates		
European Comma	nd (T	(KAFM) INTEILIGENO	se operati rica Comma	ons a nd (11	ING MISSION	ns in suppor This	LOLUS		
	European Command (USEDCOM) and US Arrica Command (USAFRICOM). This								

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE RAF CROUGHTON JOINT INTELLIGENCE ANALYSIS COMPLEX RAF CROUGHTON SITE # 1 CONSOLIDATION, PH3 UNITED KINGDOM 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER PROJECT COST (\$000) 27576 1638/EXSW143013 141-456 53,082

consolidation/relocation to RAF Croughton (enduring communication installation) will create operational and mission support efficiencies and allow divestiture of RAFs Molesworth and Alconbury (1,800,000 sq ft). This project is required to recapitalize inadequate and inefficient, nonpurpose-built intelligence analytic facilities at RAFM and to provide additional, purpose-built space to fully enable current intelligence missions directed since the USEUCOM Joint Intelligence Operations Center (JIOCEUR) Analytic Center (JAC) stood up in 1991 and USAFRICOM J2-M in 2008. These organizations provide all-source intelligence during peace, crisis and war, 24/7/365. This project is required to support responsive and agile Theater, Joint, all-source intelligence analysis & production, gain and maintain information dominance, and to support the COCOM's Strategy of Active Security through intelligence Building Partnership Capacity (BPC) and Partner Nation Engagement (PNE) missions. The CJCS-signed Joint Intelligence Center Executive Order (DTG 03160Z APR 06) directed establishment of JIOC facilities at all COCOMs "to operate together as a cohesive team." To effectively carry out this critical mission, the USEUCOM JAC and USAFRICOM J2-M require adequately sized and effectively configured facility that consolidates intelligence personnel with other national and international intelligence agency representatives to provide coherent, timely, actionable intelligence to the US, NATO and Coalition forces. Work space is needed for approximately 1,200 personnel with rapid expansion capability to integrate up to 81 Joint Reserve Intelligence Support Element Reserve personnel during surge operations.

CURRENT SITUATION: Intelligence mission growth at RAFM of over 500% since 1991 has resulted in a severe shortfall of intelligence spaces, resulting in intel missions being housed in over 21 undersized, widely-dispersed facilities, including a WWII B-17 hangar, several Cold War Cruise Missile facilities and leased, relocatable facilities. None of the current permanent facilities were purpose-built for their current use. This shortfall constrains COCOM decision making processes and collaborative intelligence analysis; and degrades the reliability of theater and national communications and intelligence assets. In addition to minimal Base Operations (BASOPS) expenditures, over \$90M in Intelligence Community mission funds have been spent since 2005 to keep these aging facilities and supporting utilities systems in a minimally sustainable state. Current Intelligence mission facilities are 13 miles from support facilities, wasting thousands of personnel-hours of analytic effort per year in travel time and exposing personnel to one of the UKs most hazardous and heavily trafficked roads. Aging and inefficient primary power, back-up power and cooling systems critical to the intelligence mission are not able to be economically upgraded, due to the nature of existing facilities. System failures cause frequent down-time for intelligence analysts, wasting thousands of personnel-hours in analytical effort and exposing the COCOM to intelligence blackouts. Facilities do not meet current code criteria for AT/FP, handicap accessibility and life-safety. This consolidation project would save, avoid or allow reallocation of \$75M/yr in BASOP, CIVPERS, MILPERS and intelligence mission funding, including not having to fund current facility sustainment/maintenance backlog of \$191M, required to bring these facilities at RAFM to an operationally adequate and sustainable condition.

DD FORM 1391, DEC 99

Page No.

1. COMPONENT		2. DATE						
AIR FORCE		(computer generated)						
3. INSTALLATION	, SITE AND LOCATION 4. PROJECT TITLE							
RAF CROUGHTON				JOINT INTELLIGEN	MPLEX			
RAF CROUGHTON SITE # 1				CONSOLIDATION, PH3				
UNITED KINGDOM								
5. PROGRAM ELEM	ENT 6	. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)		
27576		141-456	1638	53	3,082			

IMPACT IF NOT PROVIDED: Severe facility shortfalls and dispersion will continue to constrain USEUCOM JAC and USAFRICOM J2-M ability to provide responsive and agile intelligence in support of their respective Combatant Commanders. Training to support intelligence BPC and PNE will continue to be constrained, levying an inordinate burden on the US Intelligence Community to support NATO and Coalition intelligence missions. Intelligence sustainment training and professional development for US intelligence personnel will continue to be constrained. Unanticipated power and cooling system failures will continue to cost thousands of hours of joint analytical effort per year. The Government will continue to spend \$74M/year to support and sustain this mission and will be forced to invest up to \$191 million to restore and modernize these facilities. Intel personnel will continue to be housed in facilities which do not meet current code criteria for AT/FP, handicap accessibility and life-safety, and which do not provide an adequate Quality of Life or Quality of Service. Intelligence facilities will continue to be geographically separated from support facilities, wasting additional thousands of hours of analytic effort.

ADDITIONAL: This project meets applicable criteria/scope specified in AF Manual 32-1084, Facility Requirements. This is Phase 3 of 3 and supports the consolidation and relocation of the intel missions; previous phases were Phase 1 (EXSW143010) in FY15 for \$92.2M and Phase 2 (EXSW143012) in FY16 for \$94.2M. Training and Mission Support requirements are not eligible for NATO Security Investment Program (NSIP) funding. A preliminary analysis of alternatives for accomplishing this project indicated the best option to meet operational requirements is new construction. Therefore, no economic analysis was needed or performed. A waiver was prepared. This project has been coordinated with the installation physical security plan, and all physical security measures are included. RJITF: 2,276 SM = 24,497 SF; Fitness Center: 7,119 SM = 76,621 SF; Commissary: 2,900 SM = 31,213 SF.

Base Civil Engineer: 011-44-1280-708169

FOREIGN CURRENCY: FCF Budget Rate Used: POUND .6473

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

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJ. AIR FORCE (computer generated) 3. INSTALLATION AND LOCATION 4. PROJECT RAF CROUGHTON JOINT INTE RAF CROUGHTON SITE # 1 JOINT INTE UNITED KINGDOM 6. CATEGORY CODE 7. PROJECT NUMER 27576 141-456 1638/EXSW14301 12. SUPPLEMENTAL DATA: a. Estimated Design Data: 1 (1) Project to be accomplished by design-build proce (2) Basis: - (a) Standard or Definitive Design - (b) Where Design Was Most Recently Used - - (3) All Other Design Costs (4) Construction Contract Award - (5) Construction Start (6) Construction Completion - (7) Energy Study/Life-Cycle analysis was/will be per - b. Equipment associated with this project provided from -	ECT DATA TITLE ELLIGENCE ANALYSI TION, PH3 ER 8. PROJECT C .3 53 edures	2. DATE 2. DATE 2. COMPLEX 20ST (\$000) 2,082 NO 1,000 17 APR 17 OCT 20 SEP NO iations:
3. INSTALLATION AND LOCATION 4. PROJECT RAF CROUGHTON JOINT INTE RAF CROUGHTON SITE # 1 JOINT INTE UNITED KINGDOM 6. CATEGORY CODE 7. PROJECT NUMBER 27576 141-456 1638/EXSW14301 12. SUPPLEMENTAL DATA: a. Estimated Design Data: 1638/EXSW14301 12. SUPPLEMENTAL DATA: a. Estimated Design Data: 1638/EXSW14301 12. SUPPLEMENTAL DATA: a. Estimated Design Data: 1638/EXSW14301 13. All Other Design Costs (a) Standard or Definitive Design - (b) Where Design Costs (4) Construction Contract Award (5) Construction Start (6) Construction Completion (7) Energy Study/Life-Cycle analysis was/will be per b. Equipment associated with this project provided from	TITLE CLLIGENCE ANALYSI TON, PH3 ER 8. PROJECT C .3 53 edures	S COMPLEX SOST (\$000) ,082 NO 1,000 17 APR 17 OCT 20 SEP NO iations:
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5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 27576 141-456 1638/EXSW14301 12. SUPPLEMENTAL DATA: a. Estimated Design Data: 1 (1) Project to be accomplished by design-build proces (2) Basis: (a) Standard or Definitive Design - (b) Where Design Was Most Recently Used - (3) All Other Design Costs - (4) Construction Contract Award - - (5) Construction Start - - (6) Construction Completion - - (7) Energy Study/Life-Cycle analysis was/will be per b. Equipment associated with this project provided from	ER 8. PROJECT C .3 53 edures formed om other appropr	NO 1,000 17 APR 17 OCT 20 SEP NO iations:
27576 141-456 1638/EXSW14301 12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Project to be accomplished by design-build proce (2) Basis: (a) Standard or Definitive Design - (b) Where Design Was Most Recently Used - (3) All Other Design Costs (4) Construction Contract Award (5) Construction Start (6) Construction Start (6) Construction Completion (7) Energy Study/Life-Cycle analysis was/will be per b. Equipment associated with this project provided from File	dures	NO 1,000 17 APR 17 OCT 20 SEP NO iations:
 12. SUPPLEMENTAL DATA: a. Estimated Design Data: Project to be accomplished by design-build process Basis: Standard or Definitive Design - Where Design Was Most Recently Used - (3) All Other Design Costs Construction Contract Award Construction Start Construction Completion Energy Study/Life-Cycle analysis was/will be per Equipment associated with this project provided from provided from the project pro	edures formed om other appropr.	NO 1,000 17 APR 17 OCT 20 SEP NO iations:
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 (3) All Other Design Costs (4) Construction Contract Award (5) Construction Start (6) Construction Completion (7) Energy Study/Life-Cycle analysis was/will be per b. Equipment associated with this project provided from 	formed om other appropr	1,000 17 APR 17 OCT 20 SEP NO iations:
 (4) Construction Contract Award (5) Construction Start (6) Construction Completion (7) Energy Study/Life-Cycle analysis was/will be per b. Equipment associated with this project provided from 	formed om other appropr	17 APR 17 OCT 20 SEP NO iations:
 (5) Construction Start (6) Construction Completion (7) Energy Study/Life-Cycle analysis was/will be per b. Equipment associated with this project provided from 	formed om other appropr	17 OCT 20 SEP NO iations:
 (6) Construction Completion (7) Energy Study/Life-Cycle analysis was/will be per b. Equipment associated with this project provided from 	formed om other appropr	20 SEP NO iations:
(7) Energy Study/Life-Cycle analysis was/will be per b. Equipment associated with this project provided fro F:	formed	NO
b. Equipment associated with this project provided fro	om other appropr	iations:
PROCURING APPRC AF EQUIPMENT NOMENCLATURE OF	ISCAL YEAR PPROPRIATED R REQUESTED	COST (\$000)
FURNISHINGS - PRI FACILITIES 3400	2019	2,000
TELEPHONES 3400	2019	150
FITNESS CENTER EQUIPMENT 3400	2019	1,000

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE		
AIR FORCE		(c	omputer gen	erate	d)				
3. INSTALLATION	, SITE	AND LOCATION		4. PF	OJECT TITL	Ξ			
RAF CROUGHTON				MAIN	GATE COMPLE	EX			
RAF CROUGHTON S	ITE #	1							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
27576	27576 730-832 1638/EXSW143011 16,500								
		9. C	OST ESTIMA	TES	I				
		ITEM		U/M	QUANTITY	UNIT	COST		
PRIMARY FACILIT	IES						5,033		
VISITOR CONTROL	L CENT	ER		SM	200	4,396	(879)		
LARGE VEHICLE	AND PO	V INSPECTION		SM	650	3,142	(2,042)		
GATE HOUSE/ID	CHECK			SM	30	4,396	(132)		
OVERWATCH				SM	6	4,396	(26)		
CANOPY				SM	500	1,727	(864)		
DENIAL BARRIER	SYSTE	MS		LS			(990)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(100)		
SUPPORTING FACIN	LITIES						9.710		
UTTLITTES				LS			(1,900)		
LOCAL HIGHWAY	λιιτυΩρ	TTV BACE ACCESS DEC		LC			(1150)		
GITE INDROVEME		III DADE ACCEDD REQ					(1,150)		
DAVENENTC WALL	WHANG						(050)		
VENERIS, WAL	WAIS,	CORB AND GUILER					(4,840)		
VEHICLE PARKING	G AND	LIGHTING					(780)		
EXTERIOR COMMU	NICATI	ONS		LS			(425)		
LANDSCAPING LS (
SUBTOTAL							14,743		
CONTINGENCY	(5.0%))					737		
TOTAL CONTRACT (COST						15,480		
SUPERVISION, IN:	SPECTI	ON AND OVERHEAD	(2.5%)				387		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				590		
TOTAL REQUEST							16,457		
TOTAL REQUEST (1	ROUNDE	D)					16,500)		
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				(400		
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ct a comp	Liant main o	ate complex		
with large veh	icle	inspection station	n (LVIS) u	tiliz	ing econor	nical design	and		
construction m	nethod	s to accommodate t	the mission	n of	the facil:	ity. Facilit	ies will be:		
designed as pe	ermane	ent construction in	n accordan	ce wi	th the Dol	O Unified Fa	cilities		
Criteria (UFC)	Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High								
Performance an	Performance and Sustainable Building Requirements. This project will comply with								
DoD antiterrorism/force protection requirements per UFC 4-010-01.									
Air Conditioning: 5 Tons									
11. Requirement: 1386 SM Adequate: 0 SM Substandard: 9 SM									
PROJECT: Main Gate Complex. (Current Mission)									
REQUIREMENT:	This	project is require	ed to prov	ide a	purpose-l	ouilt, UFC o	compliant		
Main Gate Comp	lex a	nd LVIS to support	t current :	missi	on operat:	ions. Const	ructs new		
installation e	entran	ce in accordance w	with requi	red s	tandards p	providing th	ne required		
DD FORM 1391,	DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.								

1. COMPONENT AIR FORCE	FY 2017 1	FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE						
		(00mpa001 30						
3. INSTALLATION	ON, SITE AND LOCATION 4. PROJECT TITLE							
RAF CROUGHTON	MAIN GATE COMPLEX							
RAF CROUGHTON S	SITE # 1							
UNITED KINGDOM								
5. PROGRAM ELEM	ENT 6. CATEGORY CO	DE 7. RPSUID	7. RPSUID/PROJECT NUMBER 8. PROJECT COST					
27576	730-832	1638	1638/EXSW143011 16,500					

stand-off distances prescribed that are not achievable at existing entrances. Facilitate 422d Security Forces with ability to inspect and search all vehicles and personnel requiring entry and to validate and issue identification documents to visiting personnel.

<u>CURRENT SITUATION:</u> RAF Croughton's existing entry control point is not compliant. Current entry control has no traffic speed reduction capability and no queuing capacity (less than 50 meters to public roadway), which creates dangerous traffic congestion on public roadway. Additionally, a lack of a large vehicle inspection station means that security forces personnel must close an entry lane to inspect vehicles at the guard shack. If a suspicious vehicle exists, the public road to freeway must be closed and all entry into the installation stops. Lack of a visitor processing center creates distractions for security personnel working entry control since all visitors must be processed at the guard shack.

IMPACT IF NOT PROVIDED: If suspicious items are identified at the gate, the entire gate must be shut down. This effectively seals off access to the installation, and impacts the installation's ability to conduct its mission. In addition, traffic flows remain unsafe, and accidents will continue to plague our entrance. Current operations will continue to impact the off-base Host Nation population, thus impacting our relationship. This could also impact current and future operations by slowing approval of projects, which require local planning approval, to sustain, restore or modernize mission or mission support operations until off-base impacts are reduced. A new compliant gate will significantly reduce off-base impacts and allow for more complete physical security inspections, thus safeguarding critical mission operations.

ADDITIONAL: This project is not eligible for NATO funding, and we do not anticipate this becoming eligible in the future. This project meets applicable criteria/scope specified in DoD 2000.16, Unified Facilities Criteria (UFC) 4-022-01 and Air Force Handbook 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. Therefore, no economic analysis was needed or performed. A waiver has been prepared. Base Civil Engineer: COMM +44-1280-708169. Main Gate Complex: Visitor Control Center 200 SM = 2,152 SF; Large Vehicle and POV Inspection: 650 SM = 7,000 SF; Gate House/ID Check/Overwatch 36 SM = 390 SF; Canopy: 500 SM = 5,380 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: POUND .6473

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.

COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA (COMPUTE generated) 2. DATE INSTALLATION AND LOCATION AF CROUGHTON AF CROUGHTON SITE # 1 4. PROJECT TITLE MAIN GATE COMPLEX 4. PROJECT TITLE MAIN GATE COMPLEX S. PROGRAM ELEMENT (S. SUPPLEMENTAL DATA: 6. CATEGORY CODE 730-832 7. PROJECT NUMBER 1638/EXSN143011 6. PROJECT COST (\$000) 1638/EXSN143011 16, 500 12. SUPPLEMENTAL DATA: a. Estimated Design Data: 11 16, 500 1638/EXSN143011 16, 500 12. SUPPLEMENTAL DATA: a. Estimated Design Data: NO 1638/EXSN143011 16, 500 12. SUPPLEMENTAL DATA: a. Estimated Design Data: NO NO NO (1) Project to be accomplished by design-build procedures (1) Project to be accomplished by design - NO NO NO (2) Basis: (a) Standard or Definitive Design - (b) Where Design Costs NO 17 MAY (6) Construction Completion 18 DEC 17 MAY 18 DEC (7) Energy Study/Life-Cycle analysis was/will be performed YES Equipment associated with this project provided from other appropriations: Equipment NOMENCLATURE PROCURING APPRO APPROPRIATED OR REQUERTED COST OR REQUERTED NOMENCLATURE COST OR REQUENTION BETECTION EQUIP								
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(6) Construction Completion 18 DEC (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: PROCURING APPRC FISCAL YEAR APPROPRIATED COST OR REQUESTED COST (\$000) TELEPHONES, OTHER EQUIP 3400 2018 40 INTRUSION DETECTION EQUIP 3080 2018 60 FURNISHINGS/STORAGE LOCKERS 3400 2018 300	(5) Constru	uction Start					17	JUN
(7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: PROCURING APPRC FISCAL YEAR APPROPRIATED OR REQUESTED COST (\$000) TELEPHONES, OTHER EQUIP 3400 2018 40 INTRUSION DETECTION EQUIP 3080 2018 60 FURNISHINGS/STORAGE LOCKERS 3400 2018 300	(6) Constru	uction Completion					18	DEC
b. Equipment associated with this project provided from other appropriations: PROCURING APPRC APPROPRIATED COST EQUIPMENT NOMENCLATURE (\$000) TELEPHONES, OTHER EQUIP 3400 2018 40 INTRUSION DETECTION EQUIP 3080 2018 60 FURNISHINGS/STORAGE LOCKERS 3400 2018 300	(7) Energy	Study/Life-Cycle a	nalysis wa	s/will be	perfor	med		YES
TELEPHONES, OTHER EQUIP3400201840INTRUSION DETECTION EQUIP3080201860FURNISHINGS/STORAGE LOCKERS34002018300	EQUIPMENT	NOMENCLATURE	PROCURI	NG APPRC	APPRO OR RE	PRIATED QUESTED		COST (\$000)
INTRUSION DETECTION EQUIP 3080 2018 60 FURNISHINGS/STORAGE LOCKERS 3400 2018 300	TELEPHONES	, OTHER EQUIP	34	£00	2	018		40
FURNISHINGS/STORAGE LOCKERS 3400 2018 300	INTRUSION	DETECTION EQUIP	30	080	2	018		60
	FURNISHING	S/STORAGE LOCKERS	34	£00	2	018		300

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE	R FORCE (computer generated)							
3. INSTALLATION	, SITI	E AND LOCATION		4. PR	OJECT TITL	E	<u> </u>	
HQ USAF				UNSPE	CIFIED MIN	OR MILITARY CON	STRUCTION	
DISTRICT OF COL	DISTRICT OF COLUMBIA							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PI	ROJECT	NUMBER	8. PROJECT CO)ST (\$000)	
91211		962-000	/PA3	Z1700	03	30,0	00	
		9.	COST ESTIMA	TES	1	1		
ITEM					QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILIT	IES						30,000	
MILCON MINOR C	ONSTRU	JCTION		LS			(30,000)	
SUPPORTING FACE	LITIES	l					0	
SUBTOTAL							30,000	
TOTAL CONTRACT	COST						30,000	
TOTAL REQUEST							30,000	
TOTAL REQUEST (1	ROUNDE	D)					30,000	
10. Descripti	on of	Proposed Constru	uction:	1		1		
11 Pequiremen	+.	Adequates	Gubetandar					
DPO.TECT. As r		Adequate:	Subscandal	.u.				
PROUBCI: AS I	Minor	eu.	ieata autho	rize	d by 10 II	5 Code 2805	370	
military const	ructi	on projects with	an estimate	ed fu	nded cost	of more than	\$750,000	
and equal or 1	ess t	han \$3,000,000 (\$	\$4,000,000 1	Eor p	rojects so	ley to correc	ct a life,	
health, safety	defi	ciency). This au	thority pro	ovide	s a means	of accomplis	ning	
projects that	are n	ot identified but	t which are	anti	cipated to	arise during	j FY17.	
other essentia	l sup	oport to Air Force	e missions.		equirement	s, new equip	lenc, and	
	-	-						

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1. COMPONENT		FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE						
AIR FORCE		(computer generated)						
3. INSTALLATION, SITE AND LOCATION WORLDWIDE UNSPECIFIED			4. PROJECT TITLE PLANNING AND DESIGN					
VARIOUS LOCATIO	NS							
5. PROGRAM ELEM	IENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT CO)ST (\$000)	
91211	91211 961-000			YZ1700	002	143	143,582	
		9.	COST ESTIM	TES				
ITEM				U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILIT	IES						143,582	
PLANNING AND D	ESIGN	(91211)		LS			(84,862)
PLANNING AND D	ESIGN	(41319)		LS			(18,720)
PLANNING AND D	ESIGN	(91211)		LS			(40,000)
SUPPORTING FACIL	LITIES	5					0	
SUBTOTAL							143,582	
TOTAL CONTRACT COST						_	143,582	
TOTAL REQUEST							143,582	
TOTAL REQUEST (1	ROUNDE	D)					143,582	
10. Descripti	on of	Proposed Constru	action.			•		

10. Description of Proposed Construction:

11. Requirement: Adequate: Substandard:

PROJECT: As required.

REQUIREMENT: These planning and design funds are required to complete the design of facilities in the FY18 Military Construction Program, initiate design of facilities in the FY19 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

Military Construction Program

Fiscal Year (FY) 2017 Overseas Contingency Operations Request

Justification Data Submitted to Congress February 2016

DEPARTMENT OF THE AIR FORCE FISCAL YEAR 2017 OVERSEAS CONTINGENCY OPERATIONS REQUEST TABLE OF CONTENTS

PAGE NUMBER

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Program Summary	257
Index (List of Projects)	259
Military Construction Projects	261

DEPARTMENT OF THE AIR FORCE OVERSEAS CONTINGENCY OPERATIONS MILITARY CONSTRUCTION FISCAL YEAR 2017 PROGRAM SUMMARY

	Authorization Request <u>(\$000s)</u>	Appropriation Request <u>(\$000s)</u>
Military Construction		
Contingency Locations Planning and Design (10 USC 2807)	10,500 940	10,500 940
Total Military Construction	11,440	11,440

DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017 INDEX -OVERSEAS CONTINGENCY OPERATIONS (DOLLARS IN THOUSANDS)

STATE/COUNTRY	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
DJIBOUTI	Chabelley Airfield	OCO: Construct Chabelley Access Road	3,600	3,600
		OCO: Construct Parking Apron and Taxiway	6,900	6,900
		Chabelley Airfield TOTAL:	10,500	10,500
		DJIBOUTI TOTAL:	10,500	10,500
		OCO: Planning and Design Total	940	940
		OVERSEAS CONTINGENCY OPERATIONS TOTAL:	11,440	11,440

1. COMPONENT	MPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE						2. DATE
AIR FORCE (computer generated)							
3. INSTALLATION CHABELLEY AIRFI	3. INSTALLATION, SITE AND LOCATION CHABELLEY AIRFIELD				ROJECT TITLE CONSTRUCT C	E THABELLEY ACC	ESS ROAD
DJIBOUTI							
5. PROGRAM ELEM	EMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER				8. PROJECT	COST (\$000)	
14494		851-147	/CAI	DJ1700	001		3,600
		9.	COST ESTIMA	TES			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITI	ES						3,158
ACCESS ROAD (85	1-147	7)		SM	39,321	78	(3,067)
ROAD BRIDGE (85	51-142	2)		EA	2	45,500	(91)
SUPPORTING FACIL	ITIES						60
SITE PREP				LS			(60)
SUBTOTAL							3,218
CONTINGENCY	(5	5.0%)					161
TOTAL CONTRACT C	OST						3,379
SUPERVISION, INS	PECTI	ON AND OVERHEAD	(6.5%)				220
TOTAL REQUEST							3,599
TOTAL REQUEST (R	OUNDE	:D)					3,600
designed as per Criteria (UFC) Performance and DoD antiterror:	rmane 1-20 1 Sus ism/f	ent construction : 00-01, General Bu: stainable Building force protection i	in accordance ilding Requi g Requirements	ce wi ireme nts. s per	th the DoD nts and UF This proj UFC 4-010	Unified Fa C 1-200-02, ect will co	cilities High mply with
11. Requirement	: 39	321 SM Adequat	te: 0 SM	Subs	tandard: 3	9321 SM	
PROJECT: Cons	truct	Chabelley Acces	s Road				
REQUIREMENT: 0	Chabe	elley Airfield is	the only lo	ocati	on in East	Africa fro	m which
armed Intellige operate. It sup combating milit down at Chabel	ence, pport tant Lev A	Surveillance and s Operation Endur Islamism and pira	d Reconnais: ring Freedor acy and supp ad is the lo	sance n - H ports one a	(ISR) ass orn of Afr additiona ccess rout	ets are aut ica (OEF-HO l RPA being e to Chabel	horized to A) for bedded lev
Airfield and is	s req	uired in order to	o execute th	ne ba	se's missi	on. All pe	rsonnel,
supplies and ed	quipm	ent are transport	ted via this	s rou	te. Impro	vement of t	his road
from gravel-su	face	ed to asphalt-suri	faced will a	signi es an	ficantly r d equipmen	educe the r t will be a	isk to the
traverse the ro	oute	in a safer manner	r and the we	eathe	r will hav	e less impa	ct on the
ability to trav	verse	the route. Add	itionally, (the r	oad is cri	tical for c	ertain
emergency respo	onse	support. In case	e of an Expl	losiv	e Ordnance	Disposal e	mergency,
the closest support	pport rt re	: is at Chabelley	Airfield.	The	road requi	res improve	ments for
CURRENT STTUAT		There is one mar	ior access	road	to Chabell	ev Airfield	, which is
used daily by p at Chabelley A: in disrepair mu	perso irfie ist b	ponnel to travel fi eld. A 3.4 mile s pe addressed. Type addre washout, proj	rom billetin stretch of p pical through	ng at prima ghout lders	Camp Lemo rily unsur the lengt	nnier (CLDJ faced grave h of the gr around 3.5) to work 1 road is avel road cubic feet
in size), and p	pothe	oles (up to 9 squa	are feet in	size). Additi	onally, the	re are two

1. COMPONENT		FY 2017 MILITARY CONSTRUCTION PROJECT DATA					
AIR FORCE		((computer gen	nerated)			
3. INSTALLATION	, SIT	E AND LOCATION		4. PROJECT TITL	E		
CHABELLEY AIRFI	ELD			OCO: CONSTRUCT	CHABELLEY ACCES	S ROAD	
DJIBOUTI							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CO	OST (\$000)	
14494		851-147	/CA	DJ170001	3,	,600	
culvert crossi	ngs t	hat have caved ir	n. Over a	period of time,	, the culverts	s have	
filled with su	rrour	ding earth, which	n obstructs	the culvert ca	ausing addition	onal road	
washout during	rair	events. There i	is also a 3	0 meter length	of concrete i	road that	
crosses a wadi	bed.	When the area r	receives ra	in, the water I	level in the v	wadi rises	
up to 4 feet a	up to 4 feet above the road level, making the road impassible. When the wadi						
fills, individ	uals	must be temporari	ily billete	d on Chabelley	Airfield or		
trangported wi		until the water	loval drop	a The read he	a boon abut	down due	

transported via air until the water level drops. The road has been shut down due to flooding several times since operations began at Chabelley Airfield. Over the past six months, there has been at least one vehicle rollover where the cause was attributed directly to the road condition. Additionally due to the condition of the road, high value equipment items must be transported the 7.5 miles from Djibouti to Chabelley Airfield via air.

IMPACT IF NOT PROVIDED: Without this project, the road will continue to be a safety hazard for the operations personnel that travel on it daily. Emergency support based out of Djibouti will be hindered by the road conditions, delaying response time. When the wadi fills with water during the rainy season, land access to Chabelley Airfield will be obstructed.

ADDITIONAL: This project meets applicable criteria/scope specified in AF Manual 32-1084, "Facility Requirements". A companion O&M project will be included to repair the two culverts. 39,321 SM = 47,028 SY.

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 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE					
AIR FORCE (computer generated)						
3. INSTALLATI	ON AND I	LOCATION		4. PROJECT	TITLE	
CHABELLEY AIR	FIELD			OCO: CONSTRU	JCT CHABELLEY	ACCESS ROAD
DJIBOUTI		I			1	
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	OST (\$000)
14494		851-147	/CA	DJ170001	3,	600
12. SUPPLEMEN	TAL DAT	A:				
a. Estimate	d Design	n Data:				
(1) Statu	IS:	.				
(a) Da	te Desig	gn Started			07	-JAN-16
(D) Pa	rametri	C COST ESTIMATES USE	a to ae	evelop costs		YES
* (C) Pe	ercent Co	ompiete as of VI JAN	2010		14	15%
^ (d) Da	te 35% I	Designed			14	-JUL-16
(e) Da	erov St	gn Compiete udv/Life_Cvale analy	reie wae	/will be per	30 formed	-SEP-IO
	lergy sc	udy/hite-cycle analy	SIS Was	s/will be ber	TOTMED	NO
(2) Basis	:					
(a) St	andard o	or Definitive Design	ı —			NO
(b) Wh	ere Des	ign Was Most Recentl	y Used	-		
(3) Total	Cost (c) = (a) + (b) or (d)	l) + (e)	:		(\$000)
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		216
(b) Al	l Other	Design Costs				108
(c) To	tal					324
(d) Co	ntract					270
(e) In	-house					54
(4) Const	ruction	Contract Award				17 MAR
(5) Const	ruction	Start				17 APR
(6) Const	ruction	Completion				18 JUN
* Indicat which i cost an	es compi s compan d execut	letion of Project De rable to traditional tability.	finitic. 35% de	on with Param sign to ensu	etric Cost Es re valid scop	timate e,
b. Equipmen	t assoc	iated with this proj	ect pro	ovided from c	ther appropri	ations:
N/A						

1. COMPONENT		FY 2017 MILI	TARY CONSTRU	CTION	PROJECT DA	TA	2. DATE	
AIR FORCE		((computer gen	erate	d)			
3. INSTALLATION	, SITI	E AND LOCATION		4. PR	OJECT TITL	E		
CHABELLEY AIRFI	ELD			CONST	RUCT PARKIN	NG APRON AND I	AXIWAY	
DJIBOUTI								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PF	ROJECT	NUMBER	8. PROJECT (OST (\$000)	
14494		113-321	/CAI	J1700	02	e	6,900	
		9.	COST ESTIMA	TES	I	1		
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILITI	ES						6,051	
TAXIWAY AND AP	RON (1	.13-321/112211)		SM	8,718	138	(1,203)	
HANGAR PADS (1	12211)			SM	16,335	180	(2,940)	
CARGO APRON AN	D TAXI	WAY (113-321/11221)	L)	SM	10,600	180	(1,908)	
SUPPORTING FACII	ITIES						100	
SITE PREP				LS			(100)	
SUBTOTAL							6,151	
CONTINGENCY	(5	.0%)					308	
TOTAL CONTRACT (COST					-	6,459	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				420	
TOTAL REQUEST						-	6,879	
TOTAL REQUEST (F	ROUNDE	D)					6,900	
10. Description of Proposed Construction: Remove approximately 25,053 SM of AM-2 matting and replace it with asphalt or concrete, as applicable to the specific area. Construct approximately 8,718 SM of asphalt taxiway and parking apron designed for MQ-1 and MQ-9 aircraft. Construct thirteen (13) concrete hanger pads totaling approximately 16,335 SM designed for MQ-1 and MQ-9 aircraft. Construct a concrete cargo aircraft apron with associated taxiway designed for one (1) C-17. Work will include all subgrade, sub base and base course work required to achieve designed soil bearing capacity. Work will also include all pavement markings and installation of engine run tie downs as required. Pavements shall be built in accordance with ETL 9-01, Airfield Planning and Design Criteria for Unmanned Aircraft Systems, for MQ-1/MQ-9 aircraft, ETL 97-9, Criteria and Guidance for C-17 Contingency and Training operations on Semi-Prepared Airfields and UFC 3-260-02, Pavement Design for Airfields. This work is anticipated to be completed by local contract. 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								
11. Requiremen	t: 35	653 SM Adequat	e: 0 SM	Subst	tandard: 2	25053 SM		
PROJECT: Cons	truct	: Parking Apron an	nd Taxiway					
REQUIREMENT:	Chabe	lley Airfield is	the only lo	catio	on in East	: Africa from	which	
armed Intellig	ence,	Surveillance and	l Reconnaiss	ance	(ISR) ass	sets are auth	orized to	
operate. It su	pport tant	s Operation Endur	ing Freedom	1 - Ho	orn of Afr	COM undated) for the	
operational gu	idanc	e and extended th	ne planned m	nissio	on duratio	on for Chabel	.ley	
Airfield from Support Locati	2 yea on (C	rs to 10 years ar SL). The use of	nd reclassif AM-2 mattir	ied : ng is	it as an e intended	enduring Cont as a tempora	ingency ry,	

Page No.

1. COMPONENT	FY 2017 MILI	2. DATE				
AIR FORCE	((computer generated)				
3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TITL	4. PROJECT TITLE			
CHABELLEY AIRFI	ELD	CONSTRUCT PARKI	CONSTRUCT PARKING APRON AND TAXIWAY			
DJIBOUTI						
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT CO	ST (\$000)		
14494	113-321	/CADJ170002	6,	900		

rapidly executable solution for an aircraft parking surface. It is not intended for long-term use and is prone to subsurface washout in the event of heavy rain. Typical damage caused by washout includes depressions and/or bulges in the AM-2 surface. These are two of the most significant types of surface distresses affecting RPAs. Repair of the AM-2 base requires the AM-2 to be removed, the base to be excavated and replaced making spot repairs very difficult. Major repair work to the AM/2 surface is expected to be required in the next 1-2 years. Replacing the AM-2 with asphalt and/or concrete will provide an operating surface that is designed for the expected duration of the mission at Chabelley Airfield. The cargo apron and access taxiway will be constructed out of concrete versus asphalt because of the expected surge traffic. When cargo aircraft sharply turn on asphalt, especially in hot weather, the asphalt is susceptible to damage. Concrete is also the preferred surface for maintenance hangers because it is less susceptible to damage from fuel, oil spills or leaks, is less permeable than asphalt and easier to clean. Once removed, the AM-2 matting will be returned to the severely depleted Air Force War Reserve Material (WRM) stock to be reconstituted and prepared for use in other contingency situations. This project is in accordance with the 2015 Chabelley Installation Development Plan.

CURRENT SITUATION: In 2013, USAFRICOM directed AFAFRICA to rapidly beddown Remotely Piloted Aircraft (RPA) at Chabelley Airfield with an expected mission duration not to exceed 2 years. An AM-2 apron and taxiway, along with seven Large Area Maintenance Shelters (LAMS) with AM-2 floors, were constructed to meet the requirement. In 2014, an additional taxiway, parallel to the first, was constructed out of asphalt. In early 2015, additional AM-2 was placed to expand the apron and provide increased hanger space to accommodate additional RPAs being bedded down at Chabelley Airfield. Loading and unloading of cargo aircraft at Chabelley Airfield must occur on the runway as no adequate parking apron exist, therefore interrupting runway operations.

IMPACT IF NOT PROVIDED: Without this project, the AM-2 surface and base will exceed its design life and eventually degrade to the point where it puts aircraft operations at risk. Subsurface issues will create conditions that can damage RPAs and continued use will wear out the AM-2 surface. Though replacement of AM-2 mat is generally a separate appropriation, it is costlier to replace AM-2 than to place asphalt or concrete. Delaying this project will also continue to tie up a very large quantity of AM-2, a high demand, low density asset across the Department of Defense. Finally, without the cargo apron, airfield operations will continue to be impacted when aircraft must park on the runway during loading and unloading. ADDITIONAL: This project meets applicable criteria/scope specified in AF Manual

32-1084, Facility Requirements. 35,653 SM = 42,640 SY

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 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE							
AIR FORCE (computer generated)								
3. INSTALLATIO	ON AND I	LOCATION		4. PROJECT 1	TITLE			
CHABELLEY AIR	FIELD			CONSTRUCT PA	ARKING APRON A	AND TAXIWAY		
DJIBOUTI		Γ			1			
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC)ST (\$000)		
14494		113-321	/CA	DJ170002	6,	900		
12. SUPPLEMEN	TAL DATA	A:						
a. Estimate	d Design	n Data:						
(1) Statu	s:	a						
(a) Da	te Desig	gn Started			14	-JAN-16		
(D) Pa	rametric	C COST ESTIMATES USE	a to ae	evelop costs		YES		
* (C) Pe	rcent Co	ompiete as of UI JAN	2016		1.4	15%		
* (d) Da	te 35% I				14	-JUL-16		
(e) Da	te Desig	gn Complete		. (15 	-SEP-16		
(I) En	ergy Stu	udy/Life-Cycle analy	'SIS was	s/will be per	Tormed	NO		
(2) Basis	:							
(a) St (b) Wh	andard (ere Des:	ign Was Most Recentl	.y Used	-		NO		
(3) Total	Cost (d	c) = (a) + (b) or (d)	l) + (e)	:		(\$000)		
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		414		
(b) Al	1 Other	Design Costs				208		
(c) To	tal					622		
(d) Co	ntract					518		
(e) In	-house					104		
(4) Const	ruction	Contract Award				17 MAR		
(5) Const	ruction	Start				17 APR		
(6) Const	ruction	Completion				18 JUN		
* Indicat which i cost an	es compi s compai d execut	letion of Project De rable to traditional tability.	finitic 35% de	on with Param esign to ensu	etric Cost Es re valid scop	timate e,		
b. Equipmen N/A	t assoc:	iated with this proj	ect pro	ovided from o	ther appropri	ations:		

1. COMPONENT		FY 2017 MIL	ITARY CONSTR	UCTION	N PROJECT D	ATA	2. DATE
AIR FORCE			(computer ger	erate	d)		
3. INSTALLATION	, SITH	E AND LOCATION		4. PF	ROJECT TITL	E	
HQ USAF				0C0:	PLANNING A	ND DESIGN	
DISTRICT OF COL	UMBIA						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT CO)ST (\$000)
91211		961-000	/PA	YZ1800	12	940	
		9.	COST ESTIMA	TES			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILIT	ES						940
PLANNING AND D	ESIGN			LS			(940)
SUPPORTING FACII	ITIES						0
SUBTOTAL							940
TOTAL CONTRACT C	COST						940
TOTAL REQUEST							940
TOTAL REQUEST (F	OUNDE	D)					940
10. Descripti	on of	Proposed Constru	uction:				
11. Requiremen	t:	Adequate:	Substanda	rd:			
PROJECT: As r REQUIREMENT:	equir These	ed.	sign funds a	are r	equired to	o complete the	e design of
facilities in Program in sup	the O port	verseas Continger of Operation Endu	ncy Operatio uring Freedo	ons (om - 1	OCO) Milit Horn of At	tary Construct frica (OEF- HG	tion DA). These
funds may be u	sed f	or value engineer	ring and fo	r sup	port of th	ne design and	
construction m	anage	ment of projects	that are f	unded	by foreig	yn government:	and for
design of clas	sifie	d and special pro	ograms.				



Department of the Air Force

Military Construction Program

Fiscal Year (FY) 2017 European Reassurance Initiatives Request

Justification Data Submitted to Congress February 2016

DEPARTMENT OF THE AIR FORCE FISCAL YEAR 2017 EUROPEAN REASSURANCE INITIATIVES REQUEST TABLE OF CONTENTS

PAGE NUMBER

Table of Contents	271
Program Summary	273
Index (List of Projects)	275
Military Construction Projects	277

DEPARTMENT OF THE AIR FORCE EUROPEAN REASSURANCE INITIATIVE MILITARY CONSTRUCTION FISCAL YEAR 2017 PROGRAM SUMMARY

Authorization	Appropriation
Request	Request
<u>(\$000s)</u>	<u>(\$000s)</u>

Total Military Construction

68,300 68,300

DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017 INDEX - EUROPEAN REASSURANCE INITIATIVES (DOLLARS IN THOUSANDS)

			AUTHORIZATION	APPROPRIATION
STATE/COUNTRY	INSTALLATION	PROJECT	REQUEST	REQUEST
BULGARIA	Graf Ignatievo AB	ERI: Construct Squadron Operations	3,800	3,800
		ERI: Fighter Ramp Extension	7,000	7,000
		ERI: Upgrade Munitions Storage	2,600	2,600
		Graf Ignatievo AB TOTAL:	13,400	13,400
		BULGARIA TOTAL	13,400	13,400
ESTONIA	Amari AB	ERI: Construct Bulk Fuel Storage	6,500	6,500
		Amari AB TOTAL:	6,500	6,500
		ESTONIA TOTAL	6,500	6,500
GERMANY	Spangdahlem AB	ERI: Construct High Capacity Trim Pad	1,000	1,000
		ERI: F/A-22 Low Observable/Composite	12,000	12,000
		ERI: F/A-22 Upgrade Infrastructure/Communications/Utilities	1,600	1,600
		ERI: Upgrade Hardened Aircraft Shelters for F/A-22	2,700	2,700
		ERI: Upgrade Munition Storage Doors	1,400	1,400
		Spangdahlem AB TOTAL:	18,700	18,700
		GERMANY TOTAL:	18,700	18,700
LITHUANIA	Siauliai AB	ERI: Munitions Storage	3,000	3,000
		Siauliai AB TOTAL:	3,000	3,000
		LITHUANIA TOTAL:	3,000	3,000
POLAND	Lask AB	ERI: Construct Squadron Operations	4,100	4,100
		Lask AB TOTAL:	4,100	4,100
	Powidz AB	ERI: Construct Squadron Operations	4,100	4,100
		Powidz AB TOTAL:	4,100	4,100
		POLAND TOTAL:	8,200	8,200
ROMANIA	Campia Turzii AB	ERI: Construct Munitions Storage Area	3,000	3,000
		ERI: Construct Squadron Operations Building	3,400	3,400
		ERI: Construct Two-Bay Hangar	6,100	6,100
		ERI: Extend Parking Apron	6,000	6,000
		Campia Turzii AB TOTAL:	18,500	18,500
		ROMANIA TOTAL:	18,500	18,500
			CO 200	C0 200
		EUKOPEAN KEASSUKANCE INITIATIVES TOTAL:	68,300	68,300

1. ComponentAir ForceFY 2	017 MILITARY CONS	STRUC	TION	N PROJ	ЕСТ	DATA	2. Date Feb 2016
3. Installation and Location/UI	2:		4. Pro	ject Title:			
Graf Ignatievo AB, B	ulgaria		EF Op	RI: Cons peration	truct Alert	Squadron (Facility	Operations/
5. Program Element	6. Category Code	7. Projec	et Numl	ber	8. Pro	oject Cost (\$00	00)
TBD	TBD	LBI	PG150	0009		3,8	00
	9. COST	ESTIMA	TES	1		1	
PRIMARY FACILITY	Item		U/M	Quant	ity	Unit Cost	Cost (\$000) TBD
SUPPORTING FACILITIES							TBD
TOTAL REQUEST							3.800
TOTAL REQUEST (ROUNI	ED)						TBD
EQUIPMENT FROM OTHER	APPROPRIATIONS (NON-A)	DD)					(TBD)
10. Description of Propose during mobilization to Graf to conduct briefings and pre and conduct flying operation	d Construction: This project Ignatievo. Currently, US force pare for flight operations. This is.	et constructer support	cts a 7, rting E will pi	000 squar RI initiati rovide air	re foot ves do crews	facility to su o not have a d with work sp	pport aircrews edicated facility ace to manage
Air conditioning: TBD							
11. Requirement: TBD	Adequate: TBD	Substa	ndard	: TBD			
<u>PROJECT:</u> ERI: Construct <u>REQUIREMENT</u> : This pro combined operations, and w provides the infrastructure n	Squadron Operations/ Operations/ Operations/ Operations ject will enhance Allied and p ill support NATO Allies in se ecessary for command and co	on Alert partner na tting cond ontrol, and	Facility tion ca ditions l increa	y pabilities through t ases the ca	to con he air apacity	duct increase domain. This for bed-dow	ed joint and s project also yn of aircraft.
CURRENT SITUATION:	BD ED: Aircrows will not be able	a to condu	lot con	mond on	d cont	rol functions	The Air Force
will be limited in their abilit	y to bed down additional miss	sions and	aircraf	t at Graf I	Ignatie	vo. Currently	, there are
operations, and significantly	limit the Department's ability	ssion. Fai	ort pea	cetime an	d cont	ingency oper	ations.
<u>ADDITIONAL</u> : The fiscal y	ear 2015 NDAA requires all pre-financing.	ERI proje	ects to l	be submit	ted for	NATO reim	bursement. This
JOINT USE CERTIFICATI	<u>ON:</u> TBD						
12. Supplemental Data: A. Design Data (Estin	nates)						
(1) Status	n Startad						TRD
(a) Date Desig (b) Percent Co	mplete as of January 2016						0%
(c) Date Desig	n 35% Complete					Μ	lar 17

1. Component	EV 201	7 MII ITADV CON	TDIC	TION DDOI	ΈΩΤ ΝΑΤΑ	2. Date	
Air Force	F I 20		JINUC		LUIDAIA	Feb 2016	
3. Installation and Lo	cation/UIC:			4. Project Title:		·	
Graf Ignatievo	o AB, Bul	garia	ERI: Construct Squadron Operation Alert Facility				
5. Program Element		6. Category Code	7. Proie	ct Number)0)		
TDD		TDD	ID	00150000			
IBD		IBD	LB	PG150009	3,8	300	
(d) [ate Design	100% Complete				TBD	
(e) P	arametric C	ost Estimates Used to Deve	lop Cost	8		Yes	
(f) T	ype of Desig	gn Contract				TBD	
(g) E	nergy Study	and Life Cycle Analysis F	erformed	1		TBD	
(2) Basis	V					TDD	
(a) 3 (b) V	tandard or I	n Was Proviously Used				IBD	
(0) v (3) Total	Cost	li was rieviousiy Oseu			(\$000)	
(3) Iotar (a) F	Production o	f Plans and Specification			(TBD	
(b) A	All Other De	sign Costs				TBD	
(c) 7	'otal Cost (a	(+b or d + e)				TBD	
(d) (Contract Cos	it				TBD	
(e) I	n-House Co	st				TBD	
(4) Const	ruction Con	tract Award Date				Jul 17	
(5) Const	ruction Star	Date			S	ep 17	
(6) Const	ruction Con	pletion Date	11.1.	1.1.6	5	ep 19	
в. Equipmen	it associated	with this project which wi	li be prov	fided from other	appropriations:		
Equipment		Procuring	FY	Appropriated	Cost		
Nomenclatu	re	Appropriation		or Requested	(\$000)		
TBD		TBD		TBD	TBD		
This DD13 visits and engineeri DoD. These budge may review and act	91 is based ing estimato t quality DI t upon relia	on preliminary estimates es that accurately define p D 1391 documents will be ble project data.	. Budge project so provide	t quality 1391 d cope, cost and ti l to the Congres	ocuments, based o meline, are in coo ss in early spring s	n completed site rdination within so that Congress	

1. Component	FY 20 1	17 MILITARY CO	NSTRUC	TION	N PROJ	IECT	DATA	2. Date Feb 2016
3. Installation and Lo	cation/UIC:			4. Pro	ject Title:			
Graf Ignatievo	AB, Bul	garia		ER	RI: Fight	ter Ra	mp Extens	sion
5. Program Element		6. Category Code	7. Proje	t L	ber	8. Pro	oject Cost (\$0	00)
TBD		TBD	LBI	PG150	0008		7,0	000
		9 COS	T FSTIMA	TFS				
PRIMARY FACILI	TY	Item		U/M	Quan	tity	Unit Cost	Cost (\$000) TBD
SUPPORTING FAC	CILITIES							TBD
TOTAL REQUEST								7,000
TOTAL REQUEST	(ROUNDEI	D)						TBD
EQUIPMENT FRO	M OTHER A	PPROPRIATIONS (NON-	-ADD)					(TBD)
10. Description of parking spots which have to park aircrast situations, only 8 a and reduce distance Air conditioning:	Proposed (h facilitate a ft on multip ircraft are p e and time b TBD	Construction: This proj a squadron of 12 fighter j le small aprons which cre ermitted to park on the ai etween aircraft.	ject expands ets. Curren eates a barri rfield. This	s the ex tly, squ er for r s projec	xisting fig adrons sy naintenar et will all	ghter ag upport: nce cre ow rota	oron to allow ing rotations ws and aircr ations to cen	v for additional at Graf Ignatievo ews. In some tralize parking
11. Requirement	: TBD	Adequate: TBD	Substa	ndard	: TBD			
<u>REQUIREMENT</u> : combined operation are natural earth an	This project ns, and will d concrete contrals prove	t will enhance Allied and support NATO Allies in construction, yielding an	d partner na setting con- unsafe worl	tion ca ditions ksite w	pabilities through t ith nume	to con the air rous ru	duct increase domain. Cur ts and uneve	ed joint and rent AGM aprons on surfaces due to
bed-down of aircra	ft (parking a	and maintenance abilities).	comm		CONTROL	, and mereas	es the capacity for
<u>IMPACT IF NOT</u> aircraft at Graf Igna darkness due to lim	PROVIDED atievo. Airc nited lighting	2: The Air Force will be craft will not be properly g on current small aprons of adequate apron space	parked or n c. Currently	heir abi naintain , there	ility to be ned durin are signition	ed dow g perio ficant l	n additional ods of inclem limitations of	missions and nent weather and n the ability to
crews. Failure to f ability to support p	und this pro	ject will restrict operation d contingency operations	ns, significa	antly in	npact thro	oughpu	t, and limit t	he Department's
ADDITIONAL: The project will be sub-	ne fiscal yea mitted for pr	r 2015 NDAA requires a re-financing. N· TBD	ll ERI proje	ects to l	be submit	tted for	NATO rein	nbursement. This
JOINT USE CENT		<u>. 1</u> 00						

1. Component	FY 201	7 MILITARY CONS	STRUC	TION PROJ	ECT DATA	2. Date Feb 2016
3. Installation and Loc	ation/UIC:			4. Project Title:		
Graf Ignatievo	AB Bul	paria		ERI Fight	er Ramn Exten	sion
5. Program Element	112, 2 41	6. Category Code	7. Projec	t Number	8. Project Cost (\$0	00)
				C150009	7.	000
		IDD	LDF	G130008	/,	000
12. SupplementalA. Design Dat(1) Status(a) Dat(b) Pet(c) Dat(d) Dat(e) Pat(f) Ty(g) Er(2) Basis(a) Status(b) W(3) Total C(a) Pat(b) A(c) Tat(d) C(e) In(4) Construct(5) Construct(6) ConstructBEquipmental	Data: ta (Estimat ate Design S arcent Comp ate Design S ate Design rametric Co pe of Design ergy Study candard or I here Design Cost roduction of Il Other De total Cost (a ontract Cos -House Cos uction Cont associated	es) Started olete as of January 2016 35% Complete 100% Complete ost Estimates Used to Deve gn Contract and Life Cycle Analysis P Definitive Design Used n Was Previously Used f Plans and Specification sign Costs + b or d + e) t st tract Award Date Date pletion Date with this project which wil	lop Costs erformed	; ided from other	appropriations:	TBD 0% Mar 17 TBD Yes TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD
Equipment <u>Nomenclatur</u> TBD This DD139 visits and engineerin DoD. These budget may review and act	e 91 is based ng estimate quality DI upon relia	Procuring <u>Appropriation</u> TBD on preliminary estimates. es that accurately define p D 1391 documents will be ble project data.	FY <u>G</u> Budget roject sc provided	Appropriated or Requested TBD quality 1391 d ope, cost and ti to the Congres	Cost (<u>\$000)</u> TBD ocuments, based o meline, are in coo ss in early spring	on completed site ordination within so that Congress

1. Component Air Force	FY 20 1	7 MILITARY CO	NSTRUC	TION	N PROJ	ECT	DATA	2. Date Feb 2016
3. Installation and Lo	cation/UIC:			4. Project Title:				
Graf Ignatievo	AB, Bul	garia		ERI: Upgrade Munitions Storage				torage
5. Program Element		6. Category Code	7. Proje	et Numl	ber	8. Pro	oject Cost (\$00	0)
TBD		TBD	LBI	PG150	0010		2,6	00
		9. COS	ST ESTIMA	TES				
PRIMARY FACILI	ГҮ	Item		U/M	Quant	tity	Unit Cost	Cost (\$000) TBD
SUPPORTING FAC	ULITIES							TBD
TOTAL REQUEST								2,600
TOTAL REQUEST	(ROUNDEI	D)						TBD
EQUIPMENT FROM	M OTHER A	PPROPRIATIONS (NON	-ADD)					(TBD)
10. Description of munitions along wir also moves the exis impact of explosive Air conditioning:	Proposed (th an entry string storage safety arcs TBD	Construction: This pro- road, forklift turnaround munitions area from the on habited facilities and	ject installs area, and lig e center of b l industrial a	muniti ghtning ase to areas.	ons storaș g protectio a more iso	ge pad: on syst olated	s to hold cont em for each p area which m	ainerized oad. This project itigates the
11. Requirement:	: TBD	Adequate: TBD	Substa	ndard	: TBD			
<u>PROJECT:</u> ERI: U <u>REQUIREMENT</u> : combined operation space on the airbase providing additiona the munitions storage	(pgrade Mur This projections, and will the is insuffice and storage sp ge area.	nitions Storage et will enhance Allied and support NATO Allies in ient and does not satisfy ace. This project also re	d partner na setting con- operational emoves seve	tion ca ditions require ral wea	pabilities through t ements. T apons stor	to con he air his pro rage sa	duct increase domain. Cont oject reduces fety violation	d joint and cainerized storage the shortfall by is by relocating
CURRENT SITUA IMPACT IF NOT F requirements. Curre project will restrict	TION: TB PROVIDED ently, there operations,	D <u>e</u> : Weapons transfer and are significant limitation and significantly limit th	storage cap s on the abi ne Departme	abilitie lity to a ent's al	s will not accomplis pility to su	t meet sh the 1 upport	contingency on mission. Failu peacetime an	operations are to fund this d contingency
operations. <u>ADDITIONAL</u> : Th project will be subn JOINT USE CERT	e fiscal yea nitted for pi IFICATION	r 2015 NDAA requires a re-financing. V: TBD	ıll ERI proje	ects to l	be submit	ted for	NATO reim	bursement. This
12. Supplemental	Data:							
A. Design Da	ta (Estimat	tes)						
(1) Status (a) D	ate Design	Started						TBD
(b) Pe	ercent Com	plete as of January 2016						0%
(c) D	ate Design .	35% Complete					М	ar 17

1. Component	FY 20 ⁻	17 MILITARY CON	STRUC	TION PRO.	ЕСТ ДАТА	2. Date Eab 2016
Air Force						Feb 2010
3. Installation and Lo	ocation/UIC:			4. Project Title:		
Graf Ignatieve	o AB, Bul	garia		ERI: Upgr	ade Munitions S	Storage
5. Program Element		6. Category Code	7. Proje	et Number	8. Project Cost (\$00)0)
TBD		TBD	LBI	PG150010	2,6	500
(d) [Date Design	100% Complete				TBD
(e) P	arametric C	ost Estimates Used to Deve	elop Costs	5		Yes
(f) T	ype of Desig	gn Contract				TBD
(g) E	Energy Study	and Life Cycle Analysis I	Performed	l		TBD
(2) Basis						
(a) S	Standard or 1	Definitive Design Used				TBD
(b) V	Where Desig	n Was Previously Used				
(3) Total	Cost				(\$000)
(a) H	Production o	f Plans and Specification				TBD
(b) A	All Other De	esign Costs				TBD
(c) 7	Fotal Cost (a	a + b or d + e)				TBD
(d) (Contract Cos	st				TBD
(e) I	n-House Co	st				TBD
(4) Const	ruction Con	tract Award Date			•	Jul 17
(5) Const	ruction Star	t Date			S	ep 17
(6) Const	ruction Con	pletion Date			S	Sep 18
B. Equipmer	nt associated	with this project which wi	ll be prov	ided from other	appropriations:	
Equipment		Procuring	FY	Appropriated	Cost	

Equipment	Procuring	FY Appropriated	Cost
Nomenclature	<u>Appropriation</u>	or Requested	(\$000)
TBD	TBD	TBD	TBD

This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.

1. Component Air Force FY 20	17 MILITARY CON	ISTRUC	TION	N PROJ	ЕСТ	DATA	2. Date Feb 2016
3. Installation and Location/UIC:			4. Project Title:				
Amari AB, Estonia			ERI: Construct Bulk Fuel Storage				
5. Program Element	6. Category Code	7. Projec	ect Number 8 Project Cost (\$000)			0)	
תפת	TPD	EE	ET150	006		6.5	00
	IDD	EE.	EIIJU	000		0,3	00
	9. COS	T ESTIMA	TES			I	
PRIMARY FACILITY	Item		U/M	Quant	tity	Unit Cost	Cost (\$000) TBD
SUPPORTING FACILITIES							TBD
TOTAL REQUEST							6.500
TOTAL REQUEST (ROUNDE	D)						TBD
EQUIPMENT FROM OTHER A	PPROPRIATIONS (NON-	ADD)					(TBD)
10. Description of Proposed loop to supply the aircraft apro- refueling operations. The curr capacity to approximately 350	Construction: This proj on with refueling capabilit ent capacity is approxima ,000 gallons.	ect installs by to support tely 100,00	additio t fighte 0 gallo	nal fuel s er aircraft ons and th	torage operatis proj	capability ar tions and ens ect will incre	id a fuel pipeline ure reliable ase storage
Air conditioning: TBD	-						
11 Requirement. TBD	Adaguata: TBD	Substa	ndard	TRD			
<u>PROJECT:</u> ERI: Construct Bu	ilk Fuel Storage	Substa	nuaru.	IDD			
<u>REQUIREMENT</u> : This project	ct will enhance allied and	partner nat	ion cap	abilities	to conc	luct increased	l joint and
combined operations, and will	support NATO Allies in a	setting cond	ditions	through t	he air	domain. Ama	ri airfield has
combined contingency operation	ons efficiently and cost-ef	fectively.	This pr	oiect will	l also r	brovide a fuel	pipeline loop to
reduce the time necessary for c	cargo aircraft fueling oper	ations.	. I	J			I I I I I I I I I I
CURRENT SITUATION: TB	D	cc	1	•, ,			
<u>IMPACT IF NOT PROVIDED</u> operations Amari airfield has	<u>)</u> : The airbase will not hat limited refueling capability	ive sufficient	nt fuel (capacity t manent fi	o susta uel sto	ain NATO co rage must be	ntingency constructed to
provide the capacity to support	combined contingency o	perations e	fficient	ly and co	st-effe	ctively. Cur	rently fuel is
limited and large aircraft must	refuel at the airport instea	ad of on bas	se.	-		-	-
<u>ADDITIONAL</u> : The fiscal year	r 2015 NDAA requires al	ll ERI proje	ects to t	be submit	ted for	NATO reim	bursement. This
JOINT USE CERTIFICATION	N: TBD						
12. Supplemental Data:							
A. Design Data (Estima	tes)						
(1) Status	Startad						TRD
(a) Date Design (b) Percent Com	plete as of January 2016						0%
(c) Date Design	35% Complete					M	[ar 17

1. Component	EV 201	7 MILITADY CONG		TION DDOI		2. Date
Air Force	FI 201	I/ MILITARY CONS	JIKUU	TION PROJ	ECIDAIA	Feb 2016
3. Installation and Lo	ocation/UIC:			4. Project Title:		
Amari AB, Es	stonia			ERI: Cons	truct Bulk Fuel	Storage
5. Program Element		6. Category Code	7. Projec	et Number	8. Project Cost (\$00)0)
TBD		TBD	EE	EI150006	6,5	500
(d) [Date Design	100% Complete				TBD
(e) P	arametric C	ost Estimates Used to Deve	lop Costs	5		Yes
(f) T	ype of Desig	gn Contract				TBD
(g) E	Energy Study	and Life Cycle Analysis P	erformed	l		TBD
(2) Basis						
(a) S	Standard or 1	Definitive Design Used				TBD
(b) V	Where Desig	n Was Previously Used				
(3) Total	Cost				(\$000)
(a) H	Production o	f Plans and Specification				TBD
(b) A	All Other De	esign Costs				TBD
(c) 7	Fotal Cost (a	a + b or d + e)				TBD
(d) (Contract Cos	st				TBD
(e) I	n-House Co	st				TBD
(4) Const	ruction Con	tract Award Date				Jul 17
(5) Construction Start Date Sep 17				ep 17		
(6) Const	ruction Con	pletion Date			S	bep 19
B. Equipmer	nt associated	with this project which wil	l be prov	ided from other	appropriations:	
Equipment		Procuring	FY	Appropriated	Cost	

Equipment	Procuring	FY Appropriated	Cost
Nomenclature	Appropriation	or Requested	<u>(\$000)</u>
TBD	TBD	TBD	TBD

This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.

1. Component	EV 201	7 MILITADV CONS	TDUC	TION		ЕСТ	ПАТА	2. Date
Air Force		FY 2017 MILITARY CONSTRUCT			N PROJ	Feb 2016		
3. Installation and Location/UIC:			4. Project Title:					
Spangdahlem AB, Germany			ERI: Construct High Capacity Trim Pad and Hush House					
5. Program Element	n Element 6. Category Code 7. Proje			t Number 8. Project Cost (\$000))0)	
TBD		TBD	VYI	HK17	0005	005 1,000		
		9. COST	ESTIMA	TES	1		1	
Item PRIMARY FACILITY			U/M	Quantity		Unit Cost	Cost (\$000) TBD	
SUPPORTING FACILITIES							TBD	
TOTAL REOUEST	7							1.000.000
TOTAL REQUEST	(ROUNDEI))						TBD
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)			DD)					(TBD)
10. Description of	Proposed C	Construction: This projec	t provide airfield	s an F/ The tr	A-22 con	ill pro	high capacity	y trim pad and
accommodate F/A-22 thrust of 35,000 pounds per engine and upward exhaust vents. A hush house is required due to								
environmental noise considerations at Spangdahlem AB.								
Air conditioning: TBD								
11. Requirement: TBD Adequate: TBD Substandard: TBD								
PROJECT: ERI: Construct High Capacity Trim Pad and Hush House REOUIREMENT: This project will enhance allied and partner nation capabilities to conduct increased joint and								
combined operations, and will support NATO Allies in setting conditions through the air domain. This project provides								
the infrastructure necessary to bed-down and maintain F/A-22 aircraft and operations. Current trim pads do not meet thrust rating required when running both F/A_2 engines								
<u>CURRENT SITUATION</u> : TBD								
IMPACT IF NOT PROVIDED: 5th generation aircraft will not be able to support EUCOM/NATO combined								
ADDITIONAL: The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This								
project will be submitted for pre-financing.								
<u>JOINT USE CERT</u> 12. Supplementa	IFICATION Data:	<u>√:</u> TBD						
A. Design D	ata (Estimat	es)						
(1) Status								
(a) Date Design Started (b) Percent Complete as of January 2016			1BD 0%			1BD 0%		
(c) Date Design 35% Complete						Μ	Iar 17	
(d) Date Design 100% Complete								TBD

1. Component	EV 201	2. Date					
Air Force	F Y 201	17 MILITAKI CONS)IKUU	Feb 2016			
3. Installation and Lo	3. Installation and Location/UIC:			4. Project Title:			
Spangdahlem AB, Germany				ERI: Construct High Capacity Trim Pad and Hush House			
5. Program Element		6. Category Code	7. Projec	ct Number 8. Project Cost (\$000)			
TBD		TBD	VYI	HK170005	1,000		
(e) P	(e) Parametric Cost Estimates Used to Develop Costs Yes					Yes	
(f) Type of Design Contract				TBD			
(g) Energy Study and Life Cycle Analysis Performed			TBD				
(2) Basis							
(a) Standard or Definitive Design Used					TBD		
(b) Where Design Was Previously Used							
(3) Total Cost (\$0				\$000)			
(a) Production of Plans and Specification				TBD			
(b) All Other Design Costs					TBD		
(c) Total Cost $(a + b \text{ or } d + e)$					TBD		
(d) Contract Cost				TBD			
(e) In-House Cost				TBD			
(4) Construction Contract Award Date				Jul 17			
(5) Construction Start Date				Sep 17			
(6) Construction Completion Date Sep 1					ep 18		
B. Equipmen	it associated	with this project which wil	l be prov	ided from other	appropriations:		

Equipment	Procuring	FY Appropriated	Cost
Nomenclature	<u>Appropriation</u>	or Requested	(\$000)
TBD	TBD	TBD	TBD

This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.
1. Component	FY 201	7 MILITARY CONS	STRUC	TION	N PROJ	ЕСТ	DATA	2. Date Feb 2016
3. Installation and Lo	ocation/UIC:			4. Project Title:				
Spangdahlem AB, Germany				ER Ob Fa	SI: F/A-2 Servabl cility	22 Lo e/Cor	w nposite Rej	pair
5. Program Element		6. Category Code	7. Projec	et Numb	ber	8. Pro	oject Cost (\$00	0)
TBD		TBD	VYI	HK17	0004		12,0	000
		9. COST	ESTIMA	TES	I		Γ	I
PRIMARY FACILI	TY	Item		U/M	Quant	tity	Unit Cost	Cost (\$000) TBD
SUPPORTING FAC	CILITIES							TBD
TOTAL REQUEST	,							12,000
TOTAL REQUEST	(ROUNDEI	D)						TBD
EQUIPMENT FRO	M OTHER A	PPROPRIATIONS (NON-AI	DD)					(TBD)
10. Description of facility to support l equipment/facilitie F/A-22 unique con	Proposed (F/A-22 aircr s for repairs amunication	Construction: This projec aft operations on the airfield currently not available at S and utility system requiren	t provide d. 5th ge pangdah nents.	s a sing neratio lem AF	gle bay, lo on aircraft 3. The fa	ow obs requin cility v	ervable (LO) e specialized will be capabl	composite repair LO e of supporting
Air conditioning:	TBD							
11. Requirement: TBD Adequate: TBD Substandard: TBD PROJECT: ERI: F/A-22 Low Observable/Composite Repair Facility <u>REQUIREMENT</u> : This project will enhance allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. This project provides the infrastructure necessary to bed-down and maintain F/A-22 aircraft and operations. <u>CURRENT SITUATION</u> : TBD <u>IMPACT IF NOT PROVIDED</u> : 5th generation aircraft will not be able to support EUCOM/NATO combined operations from Spangdahlem AB due to inadequate maintenance capabilities. <u>ADDITIONAL</u> : The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing. JOINT USE CERTIFICATION: TBD								
12. Supplemental A. Design Da	l Data: ata (Estimat	tes)						
(1) Status	Sonta Davia	Ctoute d						TDD
(a) L (b) P	Pate Design S Percent Com	Started plete as of January 2016						0% IBD
	Date Design	35% Complete					М	lar 17
(d) L	Date Design	100% Complete						IRD

1. Component	FY 201	7 MILITARY CONS	STRUCTION PROJ	ЕСТ ДАТА	2. Date				
Air Force	11201				Feb 2016				
3. Installation and Lo	cation/UIC:		4. Project Title:	4. Project 1itle:					
Spangdahlem	AB, Gern	nany	ERI: F/A-	ERI: F/A-22 Low					
		-	Observabl	Observable/Composite Repair					
			Facility	Facility					
5. Program Element		6. Category Code	7. Project Number	8. Project Cost (\$00)0)				
TDD				10	000				
IBD		IBD	VYHK170004	12,	000				
(e) P:	arametric C	ost Estimates Used to Deve	elop Costs		Yes				
(f) T	ype of Desig	n Contract			TBD				
(g) E	nergy Study	and Life Cycle Analysis F	Performed		TBD				
(2) Basis	tandard or I	Definitive Design Used			TBD				
(a) S (b) V	here Desig	n Was Previously Used			IDD				
(3) Total	Cost	i wasi ie woasiy esea		(\$000)				
(a) P	roduction of	f Plans and Specification		· · · · · · · · · · · · · · · · · · ·	TBD				
(b) A	All Other De	sign Costs			TBD				
(c) T	otal Cost (a	+ b or d + e)			TBD				
(d) (d)	Contract Cos	t			TBD				
(e) li	1-House Co	st			TBD				
(4) Collsu (5) Const	uction Star	Date			on 17				
(6) Constr	uction Com	pletion Date		S	lep 19				
B. Equipmen	t associated	with this project which wi	ll be provided from other	appropriations:	···				
Equipment		Procuring	FY Appropriated	Cost					
TRD	re	Appropriation TPD	or Requested	<u>(\$000)</u> TPD					
IDD		IDD	IDD	IDD					
This DD13 visits and engineeri DoD. These budget may review and act	91 is based ng estimate t quality DI upon relia	on preliminary estimates es that accurately define p) 1391 documents will be ble project data.	. Budget quality 1391 d project scope, cost and ti provided to the Congre	ocuments, based o meline, are in coo ss in early spring s	n completed site rdination within so that Congress				

1. Component	EV 201	7 MILITADY CONS	TDUC	TION		ГСТ	ПАТА	2. Date
Air Force	FY 20	I/ WILLIAKY CONS	SIKUC	HOP	N PKUJ	ECI	DAIA	Feb 2016
3. Installation and Lo	ocation/UIC:			4. Pro	ject Title:			
Spangdahlem	AB, Gern	nany		ERI: F/A-22 Upgrade				
		-		Infrastructure/Communications/				
				Ut	ilities			
5. Program Element		6. Category Code	7. Projec	et Numb	ber	8. Pro	ject Cost (\$00	0)
TBD		TBD	VYI	HK17	0002		1.6	00
		100	,		0002		1,0	00
		9. COST .	ESTIMA	TES				G (\$2000)
		Item		U/M	Quant	tıty	Unit Cost	Cost (\$000)
PRIMARY FACILI	ſΤΥ							IBD
SUDDODTING FA	TH ITTES							TRD
SUFFORTING FAC								IBD
TOTAL REQUEST								1,600
FOUR FOUR	(KOUNDEI M OTHED A) αφορτιτιόνις (νιόνι αι	ותר					(TBD)
EQUITMENTING	WI OTHER A	IT KOI KIATIONS (NON-AI	JD)					(IDD)
10 Decorintion of	Proposed (Construction. This project	nrovido	upgro	das to cor	mmuni	antion lines t	o accommodata
5th generation airc	raft in suppo	ort of F/A-22 ground operat	ions in th	e Mun	itions Sto	rage A	rea. Existing	g copper
communications li	nes will be u	pgraded to fiber optic lines	that supp	port the	e 5th Gen	eration	aircraft syst	ems.
Air conditioning:	TBD							
11 Dequirement	• TPD	Adaguata: TRD	Substa	ndord				
PROJECT: ERI: H	F/A-22 Upgr	ade Infrastructure/Commun	ications/	Utiliti	es			
REQUIREMENT :	This projec	t will enhance allied and pa	artner nat	ion cap	abilities t	to cond	luct increased	d joint and
combined operatio	ns, and will	support NATO Allies in set	tting cond	litions	through t	he air o	domain. This	s project provides
the infrastructure n	ecessary to	bed-down and maintain F/A	A-22 airci	aft and	l operatio	ns.		
IMPACT IF NOT	<u>PROVIDED</u>	5 5th generation aircraft w	ill not be	able to	support	EUCO	M/NATO co	mbined
operations from Sp	angdahlem	AB.						
ADDITIONAL: T	he fiscal yea	r 2015 NDAA requires all I	ERI proje	ects to l	be submit	ted for	NATO reim	bursement. This
IOINT USE CERT	TIFICATION	J. TRD						
12. Supplemental	Data:							
A. Design Da	ata (Estimat	es)						
(1) Status	S	Stanta I						TDD
(a) L (b) E	Pate Design	Started						0% IRD
(c) F	Date Design	35% Complete					М	lar 17
(d) [Date Design	100% Complete						TBD
(e) P	arametric C	ost Estimates Used to Deve	lop Costs	5				Yes

All Porce 4. Project Title: Spangdahlem AB, Germany 4. Project Title: ERI: F/A-22 Upgrade Infrastructure/Communications/ Utilities Frogram Element 6. Category Code 7. Project Number 8. Project Cost (\$000) TBD (1) Type of Design Contract TBD (2) Energy Study and Life Cycle Analysis Performed TBD (2) Basis (3) Standard or Definitive Design Used TBD (3) Standard or Definitive Design Used (5000) (4) Production of Plans and Specification TBD (b) Where Design Costs TBD (c) Total Cost (a + b or d + e) TBD (d) Construction Contract Award Date Jul 17 (e) Construction Contract Award Date Jul 17 (f) Construction Completion Date Sep 17 (g) Construction Completion Date Sep 18 B. Equipment associated with this project which will be provided from other appropriations: Equipment Appropriation TBD TBD TBD TBD TBD TBD TBD TBD (a) Construction Completion Date Sep 18 B. Equipment	Component	FY 20 1	7 MILITARY CON	STRUC	TION PROJ	ECT DATA	2. Date Feb 2016		
Spangdahlem AB, Germany ER: F/A-22 Upgrade Infrastructure/Communications/ Utilities Program Element 6. Category Code 7. Project Number 8. Project Cost (\$000) TBD TBD VYHK 170002 1,600 (1) Type of Design Contract TBD TBD (TBD) (2) Basis (3) Stndard or Definitive Design Used TBD (5) Optimized (3) Total Cost (5000) (6) Production of Plans and Specification TBD (4) Ontract Cost TBD (5) Optimized TBD (b) All Other Design Costs TBD (6) Contract Cost TBD (c) Total Cost TBD (c) Contract Cost TBD (c) Construction Contract Award Date Jul 17 (5) Construction Completion Date Sep 17 (a) Construction Completion Date Sep 18 Sep 18 Sep 18 B. Equipment Appropriation or Requested (\$000) TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD (4) Construction Completion Date Sep 17 Sep 18 Sep 18 B. Equipment Procuring FY Ap	Air Force	cation/UIC:			4. Project Title:		100 2010		
Program Element 6. Category Code 7. Project Number 8. Project Cost (\$000) TBD TBD VYHK170002 1,600 (f) Type of Design Contract TBD TBD (g) Energy Study and Life Cycle Analysis Performed TBD (a) Standard or Definitive Design Used TBD TBD (a) Standard or Definitive Design Used (S000) (a) Production of Plans and Specification TBD (b) Where Design Costs (S000) (a) Production of Plans and Specification TBD (c) Total Cost (BD) (BD) (BD) (c) Total Cost (a + b or d + e) TBD (COnstruction Contract Award Date Jul 17 (c) Construction Contract Award Date Jul 17 (S) Construction Contract Award Date Sep 17 (f) Construction Contract Award Date Sep 17 Sep 18 B. Equipment associated with this project which will be provided from other appropriations: Equipment Procuring FY Appropriated Cost Nomenclature Appropriation TBD TBD TBD TBD TBD TBD TBD Tbis DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed 1st	Spangdahlem	AB, Gern	nany		ERI: F/A- Infrastruct Utilities	22 Upgrade ure/Communica	ations/		
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(f) Type of Design Contract TBD (g) Energy Study and Life Cycle Analysis Performed TBD (a) Standard or Definitive Design Used TBD (b) Where Design Was Previously Used TBD (c) Total Cost (\$000) (a) Froduction of Plans and Specification TBD (b) All Other Design Costs TBD (c) Total Cost (a + b or d + e) TBD (d) Contract Cost TBD (e) In-House Cost TBD (f) Construction Contract Award Date Jul 17 (f) Construction Contract Award Date Sep 18 B. Equipment Procuring FY Appropriated Cost TBD TBD Momenclature Appropriation TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD Appropriation Cost Nomenclature Appropriation TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD	TBD		TBD	VYH	IK170002	1,0	600		
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	Equipment <u>Nomenclatu</u> TBD	re	Procuring <u>Appropriation</u> TBD	FY <u>c</u>	Appropriated <u>r Requested</u> TBD	Cost (\$000) TBD			
	Equipment <u>Nomenclatu</u> TBD This DD13 is and engineeri). These budget review and act	<u>re</u> 91 is based ing estimate t quality DI t upon relia	Procuring <u>Appropriation</u> TBD on preliminary estimate es that accurately define D 1391 documents will be ble project data.	FY <u>G</u> s. Budget project sc e provided	Appropriated <u>r Requested</u> TBD quality 1391 d ope, cost and ti to the Congre	Cost (\$000) TBD ocuments, based o meline, are in coo ss in early spring s	on completed s rdination with so that Congre		
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	Equipment <u>Nomenclatu</u> TBD This DD13 is and engineeri). These budget review and act	<u>re</u> 91 is based ing estimate t quality DI t upon relia	Procuring <u>Appropriation</u> TBD on preliminary estimate es that accurately define D 1391 documents will be ble project data.	FY <u>G</u> s. Budget project sc e provided	Appropriated <u>r Requested</u> TBD quality 1391 d ope, cost and ti to the Congre	Cost (\$000) TBD ocuments, based o meline, are in coo ss in early spring s	on completed s ordination with so that Congre		
	Equipment <u>Nomenclatu</u> TBD This DD13 is and engineeri). These budget review and act	<u>re</u> 91 is based ing estimate t quality DI t upon relia	Procuring <u>Appropriation</u> TBD on preliminary estimate es that accurately define D 1391 documents will be ble project data.	FY <u>c</u> s. Budget project sc e provided	Appropriated <u>r Requested</u> TBD quality 1391 d ope, cost and ti to the Congre	Cost (\$000) TBD ocuments, based o meline, are in coo ss in early spring :	on completed s ordination with so that Congre		
	Equipment <u>Nomenclatu</u> TBD This DD13 is and engineeri). These budget review and act	<u>re</u> 91 is based ing estimate t quality DI t upon relia	Procuring <u>Appropriation</u> TBD on preliminary estimate es that accurately define D 1391 documents will be ble project data.	FY <u>c</u> s. Budget project sc e provided	Appropriated <u>r Requested</u> TBD quality 1391 d ope, cost and ti to the Congre	Cost (\$000) TBD ocuments, based o meline, are in coo ss in early spring s	on completed s ordination with so that Congre		
	Equipment <u>Nomenclatu</u> TBD This DD13 is and engineeri). These budget review and act	<u>re</u> 91 is based ng estimate t quality DI t upon relia	Procuring <u>Appropriation</u> TBD on preliminary estimate es that accurately define D 1391 documents will be ble project data.	FY <u>c</u> s. Budget project sc e provided	Appropriated <u>r Requested</u> TBD quality 1391 d ope, cost and ti to the Congre	Cost (\$000) TBD ocuments, based o meline, are in coo ss in early spring s	on completed s ordination with so that Congre		
	Equipment <u>Nomenclatu</u> TBD This DD13 is and engineeri). These budget review and act	<u>re</u> 91 is based ng estimate t quality DI t upon relia	Procuring <u>Appropriation</u> TBD on preliminary estimate es that accurately define D 1391 documents will be ble project data.	FY <u>c</u> s. Budget project sc e provided	Appropriated <u>r Requested</u> TBD quality 1391 d ope, cost and ti to the Congre	Cost (\$000) TBD ocuments, based o meline, are in coo ss in early spring :	on completed s ordination with so that Congre		
	Equipment <u>Nomenclatu</u> TBD This DD13 is and engineeri). These budget review and act	<u>re</u> 91 is based ng estimate t quality DI t upon relia	Procuring <u>Appropriation</u> TBD on preliminary estimate es that accurately define D 1391 documents will be ble project data.	FY <u>c</u> s. Budget project sc e provided	Appropriated <u>r Requested</u> TBD quality 1391 d ope, cost and ti to the Congre	Cost (\$000) TBD ocuments, based o meline, are in coo ss in early spring :	on completed s ordination with so that Congre		
	Equipment <u>Nomenclatu</u> TBD This DD13 is and engineeri). These budget review and act	<u>re</u> 91 is based ing estimate t quality DI t upon relia	Procuring <u>Appropriation</u> TBD on preliminary estimate es that accurately define D 1391 documents will be ble project data.	FY <u>c</u> s. Budget project sc e provided	Appropriated <u>r Requested</u> TBD quality 1391 d ope, cost and ti to the Congre	Cost (\$000) TBD ocuments, based o meline, are in coo ss in early spring s	on completed s ordination with so that Congre		
	Equipment <u>Nomenclatu</u> TBD This DD13 is and engineeri). These budget review and act	<u>re</u> 91 is based ing estimate t quality DI t upon relia	Procuring <u>Appropriation</u> TBD on preliminary estimate es that accurately define D 1391 documents will be ble project data.	FY <u>c</u> s. Budget project sc e provided	Appropriated <u>r Requested</u> TBD quality 1391 d ope, cost and ti to the Congre	Cost (\$000) TBD ocuments, based o meline, are in coo ss in early spring s	on completed s ordination with so that Congre		

1. Component	FV 201	7 MILITARY CONS	TRUC	TION		ЕСТ	ΠΑΤΑ	2. Date	
Air Force	F I 201		JIKUC	Feb 2				Feb 2016	
3. Installation and Lo	ocation/UIC:			4. Project Title:					
Spangdahlem	AB, Germ	nany		ERI: Upgrade Hardened Aircraft Shelters for F/A-22					
5. Program Element		6. Category Code 7. Project				8. Pro	pject Cost (\$00	ect Cost (\$000)	
TBD		TBD	VYI	HK17	0001		2,7	00	
		9. COST	ESTIMA	TES	1			ſ	
Item PRIMARY FACILITY			U/M	Quant	tity	Unit Cost	Cost (\$000) TBD		
SUPPORTING FAC	CILITIES							TBD	
TOTAL REQUEST								2,700	
TOTAL REQUEST	(ROUNDED A)) DDDDDDLATIONS (NON AL	ותר					TBD (TBD)	
EQUIPMENT FRO	M UTHER A	PPROPRIATIONS (NON-AI	(עכ					(IDD)	
10. Description of 22. It includes util Auxiliary Power U	Proposed C ity and light nits.	Construction: This project ing reconfiguration and inst	upgrade	s harde of exha	ened aircra	aft she to acc	lters to accon ommodate th	nmodate the F/A- e upward	
Air conditioning:	TBD								
11. Requirement	: TBD	Adequate: TBD	Substa	ndard	: TBD				
PROJECT: ERI: U	Jpgrade Har	dened Aircraft Shelters for	F/A-22		1.11.1		1 . •	1 * * , 1	
<u>REQUIREMENT</u> : combined operatio	This projec	t will enhance allied and pa support NATO Allies in set	artner nat	ion cap ditions	through t	to cond he air	domain. This	s project provides	
the infrastructure n	ecessary to l	bed-down and maintain F/A	A-22 airci	aft and	l operation	ns.		1 5 1	
IMPACT IF NOT	<u>ATION</u> : TB Provided	D : 5th generation aircraft w	ill not be	able to	support	EUCO	M/NATO co	mbined	
operations from Sp	angdahlem	AB.							
<u>ADDITIONAL</u> : The fiscal year 2015 NDAA requires all ERI proj					be submit	ted for	• NATO reim	bursement. This	
JOINT USE CERT	TIFICATION	<u>I:</u> TBD							
12. Supplemental	l Data: ata (Estimat	es)							
(1) Status	s (Estimat								
(a) D	Date Design S	Started						TBD	
(b) Percent Complete as of January 2016 (c) Date Design 35% Complete							М	0% [ar 17	
(d) E	Date Design	100% Complete	_					TBD	
(e) P (f) T	arametric Co	ost Estimates Used to Deve	lop Costs	5				Yes	
(1) 1	ype of Desig							עמו	

1. Component	EV 201	17 MILITARY CONS	TPUC	TION PROI		2. Date
Air Force	FI 20		JIKUC		DECT DATA	Feb 2016
3. Installation and Lo	ocation/UIC:			4. Project Title:		
Spangdahlem	AB, Gern	nany		ERI: Upgr Shelters fo	ade Hardened A or F/A-22	ircraft
5. Program Element		6. Category Code	7. Projec	t Number	8. Project Cost (\$00)0)
				IV 170001	27	/00
IBD		IBD	VIF	1K1/0001	۷, ۱	00
5. Program Element TBD (g) E (2) Basis (a) S (b) V (3) Total (a) F (b) A (c) T (d) C (e) I (4) Const (5) Const (6) Const B. Equipment Nomenclatu TBD This DD13 visits and engineeri DoD. These budge may review and ac	Energy Study Standard or I Vhere Desig Cost Production o All Other De Fotal Cost (a Contract Cos n-House Co ruction Con ruction Start ruction Start ruction Com tassociated P91 is based ing estimate t quality Di t upon relia	6. Category Code TBD 7 and Life Cycle Analysis P Definitive Design Used n Was Previously Used f Plans and Specification esign Costs 1 + b or d + e) st st tract Award Date t Date pletion Date with this project which wil Procuring <u>Appropriation</u> TBD on preliminary estimates. es that accurately define p D 1391 documents will be juble project data.	7. Project VYH Performed Il be provi FY <u>0</u> . Budget provided	ided from other Appropriated <u>or Requested</u> TBD quality 1391 d ope, cost and ti to the Congre	8. Project Cost (\$00 2,7 (3) appropriations: Cost (\$000) TBD ocuments, based o meline, are in cool ss in early spring s	200) 200 TBD TBD TBD TBD TBD TBD TBD TBD

1. Component Air Force	FY 201	17 MILITARY CONS	STRUC	TION	N PROJ	ЕСТ	DATA	DATA 2. Date Feb 2016		
3. Installation and Lo	ocation/UIC:			4. Project Title:						
Spangdahlem	AB, Gern	nany		EF Do	RI: Upgr oors	ade N	Aunition St	orage		
5. Program Element	am Element 6. Category Code 7. Project				ber	8. Pro	oject Cost (\$00	ect Cost (\$000)		
TBD		TBD	VYI	HK17	0006		1,4	.00		
		9. COST	ESTIMA	TES	I		I			
PRIMARY FACILI	ITY	Item		U/M	Quant	ity	Unit Cost	Cost (\$000) TBD		
SUPPORTING FAC	CILITIES							TBD		
	_									
TOTAL REQUEST		2)						1,400 TRD		
EOUIPMENT FRO	M OTHER A) PPROPRIATIONS (NON-AI	DD)					(TBD)		
	-		,							
10. Description of aircraft operations current doors do no	Proposed (on the airfie ot meet the d	Construction: This project ld. The allowable Net Exp lesigned 7-bar pressure requ	t upgrade losive W uirement.	s the m eight ir	unitions s the exist	storage ing igl	e doors in sup loos is limited	port of F/A-22 d because the		
Air conditioning:	TBD									
11. Requirement	: TBD	Adequate: TBD	Substa	ndard	: TBD					
PROJECT: Upgra	de Munition	Storage Doors			1.11.1		1 . •			
combined operatio	ns, and will	support NATO Allies in set	artner nat	ion cap ditions	through t	he air	domain. This	s project provides		
the infrastructure n	ecessary to	bed-down and maintain F/A	A-22 airci	raft and	l operatio	ns.				
IMPACT IF NOT	<u>ATION</u> : TB Provided	D)· 5th generation aircraft w	ill not be	able to	support	EUCO	M/NATO co	mbined		
operations from Sp	angdahlem	AB.	111 1101 00	4010 10	pport			momed		
ADDITIONAL: The fiscal year 2015 NDAA requires all ERI proj				ects to l	be submit	ted for	NATO reim	bursement. This		
JOINT USE CERT	TIFICATION	V: TBD								
12. Supplemental	Data:									
A. Design Da	ata (Estimat	tes)								
(1) Status (a) E	, Date Design S	Started						TBD		
(b) Percent Complete as of January 2016								0%		
(c) L (d) T	Date Design : Date Design	35% Complete 100% Complete					Μ	iar 1/ TBD		
(a) P (e) P	arametric Co	ost Estimates Used to Deve	lop Costs	8				Yes		
(f) T	ype of Desig	gn Contract						TBD		

1. Component	EV 201	7 MILITADV CONS	TDIC			2. Date
Air Force	FI 20		JIKUC		DECT DATA	Feb 2016
3. Installation and Lo	ocation/UIC:			4. Project Title:		
Spangdahlem	AB, Gern	nany		ERI: Upgi Doors	rade Munition St	torage
5. Program Element		6. Category Code	7. Proje	ct Number	8. Project Cost (\$00)0)
		TDD		11/170006	1	
TBD		TBD	VY	HK1/0006	1,4	100
(g) E (2) Basis	Energy Study	and Life Cycle Analysis P	erformed	1		TBD
(a) X (b) V	Vhere Desig	n Was Previously Used				IDD
(3) Total	Cost				(\$000)
(a) I	Production o	f Plans and Specification				TBD
(b) 4	All Other De	esign Costs				TBD
(c) 1	otal Cost (a	a + b or d + e)				TBD
(d) (d)	Contract Cos	st				TBD
(e) 1	n-House Co	st				TBD
(4) Const	ruction Con	tract Award Date			•	Jul 17
(5) Const	ruction Star	Date			2	ep 17
(6) Const P Equipmor	ruction Con	upietion Date	1 ha prot	idad from other	annronriations	bep 18
D. Equipiner	ii associateu	with this project which wh	i de piov	fued from other	appropriations.	
Equipment		Procuring	FY	Appropriated	Cost	
Nomenclatu	re	Appropriation	11	or Requested	(\$000)	
TBD		TBD	-	TBD	<u>(\$8887)</u> TBD	
This DD13 visits and engineer DoD. These budge may review and ac	91 is based ing estimate t quality DI t upon relia	on preliminary estimates. es that accurately define p D 1391 documents will be ble project data.	Budget roject so provideo	t quality 1391 d cope, cost and ti l to the Congre	ocuments, based o meline, are in coo ss in early spring s	n completed site rdination within so that Congress

1. Component FY 202 Air Force FY 202	17 MILITARY CONS	STRUC	TION	N PROJ	ЕСТ	DATA	2. Date Feb 2016
3. Installation and Location/UIC:			4. Pro	ject Title:			
Siauliai AB, Lithuania			ER	I: Muni	itions	Storage	
5. Program Element	6. Category Code	7. Projec	et Numł	ber	8. Pro	oject Cost (\$00))
TBD	TBD	EYS	SA150	0022		3,00	00
	9. COST	ESTIMA	TES				
	Item		U/M	Quant	ity	Unit Cost	Cost (\$000)
PRIMARY FACILITY							IBD
SUPPORTING FACILITIES							TBD
TOTAL REQUEST							3,000
TOTAL REQUEST (ROUNDE)	D)						TBD (TRD)
EQUIPMENT FROM OTHER A	IPPROPRIATIONS (NON-AI	(עכ					(IBD)
10. Description of Proposed overhang to hold containerized system for each pad. Addition	Construction: This project I munitions along with an er ally, this project provides th	installs intry road	nunitio forklit l NAT	ons storag ft turnaro O with tw	e pads und are vo addi	with weather ea, and lightni tional weapor	shelter ng protection as storage igloos.
Air conditioning: TBD	J, T J. T						6 6
11. Requirement: TBD	Adequate: TBD	Substa	ndard	: TBD			
PROJECT: ERI: Munitions St	orage			122			
<u>REQUIREMENT</u> : This project	et will enhance allied and pa	artner nat	ion cap	abilities t	to cond	luct increased	joint and
storage space on the airbase is	insufficient and does not sa	tisfy ope	rationa	l requiren	nents.	This project r	educes the
shortfall by providing addition	al storage space. Siauliai A	ir Base s	upports	s a NATC) secur	ity cooperation	n exercise
between NATO countries, as v	vell as the Baltic air policing	g efforts.					
IMPACT IF NOT PROVIDED	<u>D</u> : Weapons transfer and sto	orage cap	abilitie	s will not	meet	contingency of	peration
requirements. Currently, there	are significant limitations of	on the abi	ility to	accompli	sh the	mission. Lack	of adequate
space for storage of munition contingency requirements. Fai	containers directly impacts t flure to fund this project wil	he ability	to me operati	et increas	ed ope	rational requi	rements and ughput, and
limit the Department's ability	to support peacetime and co	ontingenc	y opera	tions.		.,	agnp at, and
ADDITIONAL: The fiscal yea	r 2015 NDAA requires all I	ERI proje	ects to l	be submit	ted for	NATO reim	oursement. This
JOINT USE CERTIFICATION	re-financing. N: TBD						
12. Supplemental Data:							
A. Design Data (Estima	tes)						
(1) Status (a) Date Design	Started						TBD
(b) Percent Com	plete as of January 2016						0%
(c) Date Design	35% Complete					Μ	ar 17

1. Component	EV 201	17 MILITADY CON	STDUC	TION DDOI		2. Date		
Air Force	FI 20	II MILIIAKI CON	SIKUC		ECI DAIA	Feb 2016		
3. Installation and Lo	ocation/UIC:			4. Project Title:				
Siauliai AB, I	Lithuania			ERI: Mun	itions Storage			
5. Program Element		6. Category Code	7. Projec	ct Number	8. Project Cost (\$0	00)		
TBD		TBD	EYS	SA150022	3,0	000		
(d) I	Date Design	100% Complete				TBD		
(e) P	(e) Parametric Cost Estimates Used to Develop Costs					Yes		
(f) T	(f) Type of Design Contract					TBD		
(g) E	(g) Energy Study and Life Cycle Analysis Performed				TBD			
(2) Basis								
(a) S	Standard or 1	Definitive Design Used				TBD		
(b) V	Where Desig	n Was Previously Used						
(3) Total	Cost				(\$000)			
(a) H	Production o	f Plans and Specification			TBD			
(b) A	All Other De	esign Costs				TBD		
(c)]	Fotal Cost (a	a + b or d + e				TBD		
(d) (Contract Cos	st				TBD		
(e) I	n-House Co	st				TBD		
(4) Const	ruction Con	tract Award Date				Jul 17		
(5) Construction Start Date				S	Sep 17			
(6) Construction Completion Date				S	Sep 18			
B. Equipmer	B. Equipment associated with this project which will be provided from other appr							
Equipment		Procuring	FY	Appropriated	Cost			

Equipment	Procuring	FY Appropriated	Cost
Nomenclature	<u>Appropriation</u>	or Requested	(\$000)
TBD	TBD	TBD	TBD

This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.

1. Component Air Force	FY 201	7 MILITARY CONS	STRUC	CTION PROJECT DATA				2. Date Feb 2016	
3. Installation and Loc	cation/UIC:			4. Project Title:					
Lask AB, Pola	Ind			ER Fa	I: Cons cility	truct	Squadron (Operations	
5. Program Element		6. Category Code	7. Projec	et Numł	ber	8. Pro	oject Cost (\$00	Cost (\$000)	
TBD		TBD	EPI	LK15()006		4,1	00	
9. COST ESTIMA							I	1	
PRIMARY FACILIT	ГҮ	Item		U/M	Quant	ity	Unit Cost	Cost (\$000) TBD)) D
SUPPORTING FAC	ILITIES							TBD	D
TOTAL REQUEST								4,100	0
TOTAL REQUEST	(ROUNDEI)) DDDODDIATIONS (NON AI	ותר					(TBD	<u>D</u>
EQUI MENT PROM	I OTTILK A)					(IDD)	,,
10. Description of during mobilization briefings and preparflying operations.	Proposed (to Lask. C re for flight	Construction: This project Currently, US forces support operations. This facility w	construc ting ERI vill provic	ts a 7,0 initiati le aircr	000 square ves do no ews with	e foot : t have work :	facility to sup a dedicated f space to man	port aircrews acility to conduct age and conduct	ıct t
Air conditioning:	ГBD								
11. Requirement:	TBD	Adequate: TBD	Substa	ndard	: TBD				
PROJECT: ERI: CO	onstruct Sq	uadron Operations Facility	ortnor no	tion	nabilitias	to con	duct in crosse	d joint and	
combined operation	is, and will	support NATO Allies in set	tting cond	ditions	through t	he air	domain. This	s project also	
provides the infrastr	ructure nece	essary for command and com	ntrol, and	lincrea	uses the ca	apacity	for bed-dow	n of aircraft.	
IMPACT IF NOT P	<u>PROVIDED</u>	 Aircrews will not be able 	e to cond	uct con	nmand an	d cont	rol functions.	The Air Force	e
will be limited in their ability to bed down additional missions and				aircraf	t at Lask.	Curre	ntly, there are	e significant	
significantly limit the Department's ability to support peacetime a				d conti	ngency of	peratio	ons.	rations, and	
ADDITIONAL: The fiscal year 2015 NDAA requires all ERI projection will be submitted for pro-financing				ects to l	be submit	ted for	NATO reim	bursement. Thi	is
JOINT USE CERT	IFICATION	V: TBD							
12. Supplemental	Data:								_
A. Design Dat (1) Status	ia (Estimat	es)							
(a) Da	ate Design S	Started						TBD	
(b) Pe (c) Da	ercent Comj ate Design 3	plete as of January 2016 35% Complete					М	0% ar 17	
		<u>r</u>					111		

Air Force FY 2017 MILITARY CONSTRUCTION PROJECT DATA Feb 20 Installation and Location/UIC: 4. Project Title: ERI: Construct Squadron Operation Facility Program Element 6. Category Code 7. Project Number 8. Project Cost (\$000) TBD TBD 7. Project Number 8. Project Cost (\$000) (d) Date Design 100% Complete TBD TBD (e) Partenetric Cost Estimates Used to Develop Costs Yes (f) Type of Design Contract TBD (g) Energy Study and Life Cycle Analysis Performed TBD (g) Standard or Definitive Design Used TBD (h) Where Design Costs TBD (c) Total Cost (\$000) (a) Standard or Definitive Design Used TBD (b) Where Design Costs TBD (c) Total Cost (\$000) (a) Production of Plans and Specification TBD (b) All Other Design Costs TBD (c) In-House Cost TBD (e) In-House Cost TBD (f) Construction Contract Award Date Jul 17 (f) Construction Completion Date Sep 17 (g) Construction Completion Date Sep 18	Component						2. Date
All Folde 4. Project Title: Lask AB, Poland ERI: Construct Squadron Operation Facility Program Element 6. Category Code 7. Project Number 8. Project Cost (\$000) TBD TBD EPLK 150006 4,100 (d) Date Design 100% Complete TBD TBD EPLK 150006 4,100 (e) Parametric Cost Estimates Used to Develop Costs Yes Yes 17. Project Number TBD (e) Energy Study and Life Cycle Analysis Performed TBD TBD 10. Production of Plans and Specification TBD (a) Standard or Definitive Design Used (\$000) (\$000) (\$000) (\$000) (a) Production of Plans and Specification TBD TBD (\$000) (\$000) (a) Contract Cost TBD TBD (\$000) (a) Contract Cost TBD (b) All Other Design Costs TBD (b) Construction Completion Date Sep 17 Sep 18 (e) In-House Cost TBD TBD TBD TBD TBD (c) Construction Completion Date Sep 17 Sep 18 Sep 18 Sep 18 Sep 18 Sep 18 Sep 18 Sep 18 Sep 18 <t< th=""><th>Air Force</th><th>FY 201</th><th>17 MILITARY CONS</th><th>STRUCT</th><th>ION PROJ</th><th>JECT DATA</th><th>Feb 2016</th></t<>	Air Force	FY 20 1	17 MILITARY CONS	STRUCT	ION PROJ	JECT DATA	Feb 2016
Lask AB, Poland ERI: Construct Squadron Operation Facility Program Element 6. Category Code 7. Project Number 8. Project Cost (\$000) TBD TBD TBD EPLK 150006 4,100 (d) Date Design 100% Complete EPLK 150006 4,100 (e) Parametric Cost Estimates Used to Develop Costs Yes (f) Type of Design Contract TBD (g) Energy Study and Life Cycle Analysis Performed TBD (a) Standard or Definitive Design Used TBD (b) Where Design Was Previously Used (\$000) (a) Production of Plans and Specification TBD (b) All Other Design Costs TBD (c) Total Cost (\$000) (a) Production of Plans and Specification TBD (e) In-House Cost TBD (f) Construction Contract Award Date Jul 17 (f) Construction Contract Award Date Jul 17 (g) Construction Completion Date Sep 17 (g) Construction Completion Date Sep 18 B. Equipment Appropriation TBD TBD TBD TBD TBD TBD TBD TBD T	Installation and L	cation/LIIC.		4	1 Project Title:		
Lask AB, Poland ERI: Construct Squadron Operation Facility Program Element 6. Category Code 7. Project Number 8. Project Cost (\$000) TBD TBD EPLK 150006 4,100 (d) Date Design 100% Complete TBD TBD (e) Parametric Cost Estimates Used to Develop Costs Yes (f) Type of Design Contract TBD (g) Energy Study and Life Cycle Analysis Performed TBD (a) Standard or Definitive Design Used TBD (b) Where Design Was Previously Used (\$000) (a) Production of Plans and Specification TBD (b) All Other Design Costs TBD (c) Total Cost (a + b or d + e) TBD (d) Contract Cost TBD (e) In-House Cost TBD (f) Construction Completion Date Sep 17 (g) Construction Completion Date Sep 18 B. Equipment Associated with this project which will be provided from other appropriations: Equipment TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD		1					
Program Element 6. Category Code 7. Project Number 8. Project Cost (\$000) TBD TBD EPLK 150006 4,100 (d) Date Design 100% Complete TBD TBD (e) Parametric Cost Estimates Used to Develop Costs Yes (f) Type of Design Contract TBD (g) Energy Study and Life Cycle Analysis Performed TBD (a) Standard or Definitive Design Used TBD (b) Where Design Was Previously Used (\$000) (a) Total Cost (\$000) (a) Production of Plans and Specification TBD (c) Total Cost (a + b or d + e) TBD (d) Contract Cost TBD (e) In-House Cost TBD (f) Construction Start Date Sep 17 (g) Construction Completion Date Sep 17 (f) Construction Completion Date Sep 18 B. Equipment Procuring FY Appropriated Cost Nomenclature Appropriation TBD TBD TBD TBD TBD TBD TBD Nomenclature Appropriation TBD TBD TBD TBD TBD TBD	∟ask AB, Pol	Facility			Operations		
TBDTBDEPLK1500064,100(d) Date Design 100% CompleteTBDTBD(e) Parametric Cost Estimates Used to Develop CostsYes(f) Type of Design ContractTBD(g) Energy Study and Life Cycle Analysis PerformedTBD(g) Energy Study and Life Cycle Analysis PerformedTBD(f) Basis(f) Standard or Definitive Design UsedTBD(g) Total Cost(f) Standard or Definitive Design Used(f) Standard or Definitive Design Used(f) Total Cost(f) Standard or Definitive Design Costs(f) Standard or Definitive Design Costs(g) Total Cost (a + b or d + e)TBD(g) In-House CostTBD(h) Construction Contract Award DateJul 17(f) Construction Contract Award DateJul 17(f) Construction Completion DateSep 17(g) Construction Completion DateSep 18B. Equipment associated with this project which will be provided from other appropriations:EquipmentProcuringMomenclatureAppropriationTBDT	Program Element		6. Category Code	7. Project	Number	8. Project Cost (\$0	00)
(d) Date Design 100% Complete TBD (e) Parametric Cost Estimates Used to Develop Costs Yes (f) Type of Design Contract TBD (g) Energy Study and Life Cycle Analysis Performed TBD (g) Energy Study and Life Cycle Analysis Performed TBD (a) Standard or Definitive Design Used TBD (b) Where Design Was Previously Used (s000) (a) Standard or Plans and Specification TBD (b) All Other Design Costs (s000) (c) Total Cost (a + b or d + e) TBD (d) Contract Cost TBD (e) In-House Cost TBD (f) Construction Completion Date Sep 17 (g) Construction Completion Date Sep 18 B. Equipment associated with this project which will be provided from other appropriations: Equipment Procuring FY Appropriated Cost Nomenclature Appropriation TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD (e) In-House Cost TBD TBD Sep 18 B. Equipment Appropriation or Requested <td>TBD</td> <td></td> <td>TBD</td> <td>EPL</td> <td>\$150006</td> <td>4,</td> <td>100</td>	TBD		TBD	EPL	\$150006	4,	100
(e) Parametric Cost Estimates Used to Develop Costs Yes (f) Type of Design Contract TBD (g) Energy Study and Life Cycle Analysis Performed TBD (a) Standard or Definitive Design Used TBD (a) Standard or Definitive Design Used TBD (b) Where Design Was Previously Used (\$000) (a) Production of Plans and Specification TBD (b) All Other Design Costs TBD (c) Total Cost (a + b or d + e) TBD (d) Contract Cost TBD (e) In-House Cost TBD (f) Construction Contract Award Date Jul 17 (f) Construction Completion Date Sep 17 (f) Construction Completion Date Sep 18 B. Equipment Procuring FY Appropriated Cost Nomenclature Appropriation or Requested (\$000) TBD TBD TBD TBD Cost and engineering estimates that accurately define project scope, cost and timeline, are in coordination wo Or review and act upon reliable project data.	(d) I	Date Design	100% Complete	•			TBD
(f) Type of Design Contract TBD (g) Energy Study and Life Cycle Analysis Performed TBD (a) Standard or Definitive Design Used TBD (a) Standard or Definitive Design Used TBD (b) Where Design Was Previously Used (\$000) (a) Froduction of Plans and Specification TBD (b) All Other Design Costs TBD (c) Total Cost (a + b or d + e) TBD (d) Contract Cost TBD (e) In-House Cost TBD (e) In-House Cost TBD (f) Construction Completion Date Sep 17 (f) Construction Completion Date Sep 18 B. Equipment associated with this project which will be provided from other appropriations: Equipment Procuring FY Appropriated Cost Nomenclature Appropriation or Requested (\$000) TBD TBD TBD TBD TBD Voluments TBD TBD TBD TBD b. Equipment associated with this project scope, cost and timeline, are	(e) F	Parametric C	ost Estimates Used to Deve	elop Costs			Yes
(g) Energy Study and Life Cycle Analysis Performed TBD (2) Basis (a) Standard or Definitive Design Used TBD (a) Standard or Definitive Design Used TBD (b) Where Design Was Previously Used (s000) (a) Production of Plans and Specification TBD (b) All Other Design Costs TBD (c) Total Cost (a + b or d + e) TBD (d) Contract Cost TBD (e) In-House Cost TBD (f) Construction Contract Award Date Jul 17 (f) Construction Start Date Sep 17 (g) Construction Completion Date Sep 18 B. Equipment associated with this project which will be provided from other appropriations: Equipment Procuring FY Appropriated Cost Nomenclature Appropriation or Requested (\$000) TBD TBD TBD TBD This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on complete ts and engineering estimates that accurately define project scope, cost and timeline, are in coordination w Y These budget quality DD 1391 documents will be provided to the Congress in early spring so that Con y review and act upon reliable project data.	(f) T	ype of Desig	gn Contract				TBD
 (2) Basis (a) Standard or Definitive Design Used (b) Where Design Was Previously Used (c) Total Cost (a) Production of Plans and Specification (b) All Other Design Costs (c) Total Cost (a + b or d + e) (d) Contract Cost (e) In-House Cost (f) Construction Contract Award Date (g) Construction Completion Date (a) Construction Completion Date (b) Construction Completion Date (c) Cost (a the or d + b) (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) Construction Completion Date (c) C	(g) H	Energy Study	and Life Cycle Analysis F	Performed			TBD
(a) Standard or Definitive Design Used TBD (b) Where Design Was Previously Used (\$000) (a) Production of Plans and Specification TBD (b) All Other Design Costs TBD (c) Total Cost (a + b or d + e) TBD (d) Contract Cost TBD (e) In-House Cost TBD (f) Construction Contract Award Date Jul 17 (f) Construction Contract Award Date Sep 17 (f) Construction Completion Date Sep 17 (f) Construction Completion Date Sep 18 B. Equipment Procuring FY Appropriated Cost Nomenclature Appropriation TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD Nomenclature Appropriation or Requested (\$000) TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD Nomenclature Appropriation or Requested (\$000) TBD TBD TBD TBD TBD <	(2) Basis						
 (b) Where Design Was Previously Used (c) Total Cost (d) Production of Plans and Specification (e) All Other Design Costs (f) All Other Design Costs (f) All Other Design Costs (g) All Other Design Costs (g) All Other Design Costs (h) All Other Design Costs (h) All Other Design Costs (h) All Other Design Costs (h) All Other Design Costs (h) All Other Design Costs (h) All Other Design Costs (h) All Other Design Costs (h) All Other Design Costs (h) All Other Design Costs (h) All Other Design Costs (h) All Other Design Costs (h) All Other Design Costs (h) All Other Design Costs (h) All Other Design Costs (h) All Other Design Costs (h) All Other Design Costs (h) All Other Design Cost (h) All Other Design Cost (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Completion Date (h) Construction Context (h) Construction Context	(a)	Standard or	Definitive Design Used				TBD
(3) Fodal Cost (5) (3000) (a) Production of Plans and Specification TBD (b) All Other Design Costs TBD (c) Total Cost (a + b or d + e) TBD (d) Contract Cost TBD (e) In-House Cost TBD (e) In-House Cost TBD (f) Construction Contract Award Date Jul 17 (f) Construction Completion Date Sep 17 (f) Construction Completion Date Sep 18 B. Equipment associated with this project which will be provided from other appropriations: Equipment Procuring Nomenclature Appropriation TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD Momenclature Appropriation Or Requested (\$000) TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD	(D) (2) Total	V nere Desig	n was Previously Used			,	(\$000)
(a) Flotterion of Flains and Specification TBD (b) All Other Design Costs TBD (c) Total Cost (a + b or d + e) TBD (d) Contract Cost TBD (e) In-House Cost TBD (f) Construction Contract Award Date Jul 17 (f) Construction Start Date Sep 17 (f) Construction Completion Date Sep 17 (f) Construction Completion Date Sep 18 B. Equipment Procuring FY Appropriated Cost Nomenclature Appropriation or Requested (\$000) TBD TBD TBD TBD This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on complete ts and engineering estimates that accurately define project scope, cost and timeline, are in coordination w O. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Con y review and act upon reliable project data.	(5) Total	COSI Production o	f Plans and Specification			((\$000) TRD
(b) Information Design Costs TBD (c) Total Cost (a + b or d + e) TBD (d) Contract Cost TBD (e) In-House Cost TBD (e) In-House Cost TBD (f) Construction Contract Award Date Jul 17 (f) Construction Start Date Sep 17 (f) Construction Completion Date Sep 17 (f) Construction Completion Date Sep 18 B. Equipment associated with this project which will be provided from other appropriations: Equipment Equipment Procuring FY Appropriated Cost Nomenclature Appropriation or Requested (\$000) TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on complete ts and engineering estimate	(a) 1 (b)	All Other De	r rails and Specification				TBD
(d) Contract Cost TBD (e) In-House Cost TBD (e) In-House Cost TBD (f) Construction Contract Award Date Jul 17 (f) Construction Start Date Sep 17 (f) Construction Completion Date Sep 17 (f) Construction Completion Date Sep 17 (f) Construction Completion Date Sep 17 (f) Construction Completion Date Sep 18 B. Equipment associated with this project which will be provided from other appropriations: Equipment Procuring TBD FY Appropriated Cost Nomenclature Appropriation TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD Momenclature Appropriation TBD TBD TBD TBD TBD TBD TBD TBD TBD This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on complete ts and engineering estimates that accurately define project scope, cost and timeline, are in coordination w N. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Con y review and act upon reliable project data. </td <td>(c) [</td> <td>Fotal Cost (a</td> <td>(+ b or d + e)</td> <td></td> <td></td> <td></td> <td>TBD</td>	(c) [Fotal Cost (a	(+ b or d + e)				TBD
(e) In-House Cost TBD (4) Construction Contract Award Date Jul 17 (5) Construction Start Date Sep 17 (6) Construction Completion Date Sep 18 B. Equipment associated with this project which will be provided from other appropriations: Equipment Procuring Nomenclature Appropriation TBD Procuring TBD TBD TBD TBD TBD TBD TBD This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on complete ts and engineering estimates that accurately define project scope, cost and timeline, are in coordination wo. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Converse of view and act upon reliable project data.	(d)	Contract Cos	st				TBD
 (4) Construction Contract Award Date Jul 17 (5) Construction Start Date Sep 17 (6) Construction Completion Date Sep 18 B. Equipment associated with this project which will be provided from other appropriations: Equipment Procuring FY Appropriated Cost <u>Nomenclature Appropriation or Requested (\$000)</u> TBD TBD TBD TBD TBD This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on complete ts and engineering estimates that accurately define project scope, cost and timeline, are in coordination w. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Converse and act upon reliable project data. 	(e)]	n-House Co	st				TBD
 (5) Construction Start Date Sep 17 (6) Construction Completion Date Sep 18 B. Equipment associated with this project which will be provided from other appropriations: Equipment Procuring FY Appropriated Cost <u>Nomenclature Appropriation or Requested (\$000)</u> TBD TBD TBD TBD TBD This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on complete ts and engineering estimates that accurately define project scope, cost and timeline, are in coordination w. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Converse and act upon reliable project data. 	(4) Const	ruction Con	tract Award Date				Jul 17
(6) Construction Completion Date Sep 18 B. Equipment associated with this project which will be provided from other appropriations: Equipment Equipment Procuring FY Appropriated Cost <u>Nomenclature</u> <u>Appropriation</u> or Requested (\$000) TBD TBD TBD TBD This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on complete ts and engineering estimates that accurately define project scope, cost and timeline, are in coordination w. O. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Control or review and act upon reliable project data.	(5) Const	ruction Star	t Date			S	Sep 17
 B. Equipment associated with this project which will be provided from other appropriations: Equipment Procuring FY Appropriated Cost <u>Appropriation Or Requested (\$000)</u> TBD TBD TBD TBD TBD TBD This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on complete ts and engineering estimates that accurately define project scope, cost and timeline, are in coordination w D. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress and act upon reliable project data. 	(6) Const	ruction Con	pletion Date				Sep 18
Equipment Nomenclature TBDProcuring Appropriation TBDFY Appropriated or Requested TBDCost (\$000) TBDThis DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on complete ts and engineering estimates that accurately define project scope, cost and timeline, are in coordination w O. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Con w review and act upon reliable project data.	B. Equipmer	nt associated	with this project which wi	ll be provid	ed from other	appropriations:	
Nomenclature Appropriation or Requested (\$000) TBD TBD TBD TBD This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on complete ts and engineering estimates that accurately define project scope, cost and timeline, are in coordination w D. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Conversion of the congress in early spring so that Converse way and act upon reliable project data.	Fauinment		Procuring	FY A	nnronriated	Cost	
TBDTBDTBDTBDThis DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on complete ts and engineering estimates that accurately define project scope, cost and timeline, are in coordination w D. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Con y review and act upon reliable project data.	Nomenclati	ire	Appropriation	or	Requested	(\$000)	
This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on complete ts and engineering estimates that accurately define project scope, cost and timeline, are in coordination w D. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Con y review and act upon reliable project data.	TBD		TBD	<u></u>	TBD	TBD	
	This DD13 is and engineer). These budge review and ac	891 is based ing estimate t quality DI t upon relia	on preliminary estimates es that accurately define p D 1391 documents will be ble project data.	5. Budget q project scoj provided t	uality 1391 d be, cost and t o the Congre	locuments, based o imeline, are in coo ess in early spring	on completed ordination wit so that Congr

1. Component Air Force	FY 201	7 MILITARY CONS	STRUC	TION	N PROJ	ЕСТ	DATA	2. Da F	ate eb 2016
3. Installation and Lo	cation/UIC:			4. Pro	ject Title:				
Powidz AB, P	oland			ERI: Construct Squadron Operations Facility					ations
5. Program Element		6. Category Code	7. Projec	ct Numł	ber	8. Pro	oject Cost (\$00	0)	
TBD		TBD EPPW17000				003 4,100			
		9. COST	ESTIMA	TES	1		1		
Item PRIMARY FACILITY			U/M	Quant	ity	Unit Cost	•	Cost (\$000) TBD	
SUPPORTING FAC	CILITIES								TBD
TOTAL REQUEST TOTAL REQUEST (ROUNDED) EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)									4,100 <u>TBD</u> (TBD)
10. Description of during mobilization conduct briefings a conduct flying open Air conditioning:	10. Description of Proposed Construction: This project constructs a 7,000 square foot facility to support aircrews during mobilization to Powidz. Currently, US forces supporting ERI initiatives do not have a dedicated facility to conduct briefings and prepare for flight operations. This facility will provide aircrews with work space to manage and conduct flying operations.								
11. Requirement: TBD Adequate: TBD Substandard: TBD PROJECT: ERI: Construct Squadron Operations Facility REQUIREMENT: This project will enhance Allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. This project also provides the infrastructure necessary for command and control, and increases the capacity for bed-down of aircraft. <u>CURRENT SITUATION:</u> TBD <u>IMPACT IF NOT PROVIDED</u> : Aircrews will not be able to conduct command and control functions. The Air Force will be limited in their ability to bed down additional missions and aircraft at Powidz. Currently, there are significant limitations on the ability to accomplish the mission. Failure to fund this project will restrict flying operations, and significantly limit the Department's ability to support peacetime and contingency operations. <u>ADDITIONAL</u> : The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing. JOINT USE CERTIFICATION: TBD									
12. SupplementalA. Design Da(1) Status(a) D(b) P(c) D	Data: ata (Estimat bate Design S Percent Comp bate Design S	es) Started plete as of January 2016 35% Complete					М	TBD 0% [ar 17	

					2. Date		
Air Force FY 20	17 MILITARY CONS	STRUC'	TION PROJ	IECT DATA	Feb 2016		
Installation and Location/UIC:			4. Project Title:				
Powidz AB, Poland			ERI: Construct Squadron Operations				
Program Element	6. Category Code	7. Projec	t Number	8. Project Cost (\$0	(00		
רחד	TDD	EDD	W170002	1 1	100		
IDD	IDD	EPP	w170005	4,1	100		
(d) Date Design	100% Complete	. ~			TBD		
(e) Parametric C	Cost Estimates Used to Deve	elop Costs			Yes		
(f) Type of Desi	gn Contract)£			TBD		
(g) Energy Study	y and Life Cycle Analysis F	Performed			IBD		
(a) Standard or	Definitive Design Used				TBD		
(b) Where Desig	gn Was Previously Used				100		
(3) Total Cost	, , , , , , , , , , , , , , , , , , ,			(\$000)		
(a) Production of	of Plans and Specification				TBD		
(b) All Other De	esign Costs				TBD		
(c) Total Cost (a	a + b or d + e)				TBD		
(d) Contract Cos	st				TBD		
(e) In-House Co	OSE				IBD Int 17		
(4) Construction Con (5) Construction Star	t Date				Jul 17		
(6) Construction Con	upletion Date				Sep 18		
B. Equipment associated	l with this project which wi	ll be provi	ided from other	appropriations:			
1 1	I J	I I		II I			
Equipment	Procuring	FY	Appropriated	Cost			
Nomenclature	<u>Appropriation</u>	<u>0</u>	or Requested	<u>(\$000)</u>			
TBD	TBD		TBD	TBD			
This DD1391 is based is and engineering estimat). These budget quality D 7 review and act upon relia	l on preliminary estimates es that accurately define p D 1391 documents will be able project data.	. Budget project sc provided	quality 1391 d ope, cost and ti to the Congre	ocuments, based o imeline, are in coo ss in early spring s	on completed site rdination within so that Congress		

1. Component Air Force	FY 201	17 MILITARY CONS	STRUC	TION	N PROJ	ECT	DATA	2. Date Feb 2016
3. Installation and Lo	cation/UIC:]	4. Pro	ject Title:		I	
Campia Turzi	i AB, Ron	nania		ER Ar	I: Cons ea	truct	Munitions	Storage
5. Program Element		6. Category Code	7. Projec	et Numb	ber	8. Pro	oject Cost (\$00	0)
TBD		TBD	LRC	CT15()008		3,0	00
		9. COST	ESTIMA	TES			1	
PRIMARY FACILI	[TY	Item		U/M	Quant	tity	Unit Cost	Cost (\$000) TBD
SUPPORTING FAC TOTAL REQUEST TOTAL REQUEST EQUIPMENT FRO	CILITIES	D) PPROPRIATIONS (NON-AI	DD)					TBD 3,000 <u>TBD</u> (TBD)
10. Description of munitions along with Air conditioning:	[•] Proposed (ith an entry p TBD	Construction: This project road, forklift turnaround are	t installs r ea, and lig	nunitic ghtning	ons storag g protectio	e igloc on syst	os to hold con em.	Itainerized
11. Requirement: TBD Adequate: TBD Substandard: TBD PROJECT: ERI: Construct Munitions Storage Area REQUIREMENT: This project will enhance Allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. Containerized storage space on the airbase is insufficient and does not satisfy operational requirements. This project reduces the shortfall by providing additional storage space. This project also removes several weapons storage safety violations by relocating the munitions storage area. CURRENT SITUATION: TBD IMPACT IF NOT PROVIDED: Weapons transfer and storage capabilities will not meet contingency operations requirements. Currently, there are significant limitations on the ability to accomplish the mission. Lack of adequate space for storage of munition containers directly impacts the ability to meet operational requirements. Failure to fund this project will restrict operations. ADDITIONAL: The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing. JOINT USE CERTIFICATION: TBD								

1. Component Air Force	FY 201	17 MILITARY CONS	STRUC	TION PROJ	ECT DATA	2. Date Feb 2016	
3. Installation and Lo	ocation/UIC:			4. Project Title:			
Campia Turzi	i AB, Ron	nania		ERI: Cons Area	struct Munitions Storage		
5. Program Element		6. Category Code	7. Projec	ct Number	8. Project Cost (\$0	00)	
TBD		TBD	LRO	CT150008	3,0	000	
12. Supplemental A. Design D. (1) Status (a) E (b) F (c) E (d) E (e) F (f) T (g) F (2) Basis (a) S (b) V (3) Total (b) A (c) T (d) C (e) I (d) C (e) I (4) Const (5) Const (6) Const (6) Const	I Data: ata (Estimat bate Design 2 Percent Comp Date Design 2 Date Design 2 Date Design 2 Date Design 2 Parametric Co 2 ype of Desig Energy Study Standard or I Where Desig Cost Production of All Other De Fotal Cost (a Contract Cost in-House Co- ruction Cont ruction Start ruction Cont	ess) Started plete as of January 2016 35% Complete 100% Complete ost Estimates Used to Deve gn Contract v and Life Cycle Analysis P Definitive Design Used n Was Previously Used f Plans and Specification esign Costs + b or d + e) st st tract Award Date t Date pletion Date	lop Costs erformed	3	M (TBD 0% far 17 TBD Yes TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD	
B. Equipmer Equipment <u>Nomenclatu</u> TBD This DD13 visits and engineer DoD. These budge may review and ac	nt associated nre 391 is based ing estimate t quality DI t upon relia	with this project which wil Procuring <u>Appropriation</u> TBD on preliminary estimates. es that accurately define p D 1391 documents will be ble project data.	l be prov FY 9 Budget roject sc providec	ided from other Appropriated <u>or Requested</u> TBD quality 1391 do ope, cost and ti I to the Congres	appropriations: Cost <u>(\$000)</u> TBD ocuments, based o meline, are in coo ss in early spring s	on completed site rdination within so that Congress	

1. Component Air Force	FY 201	7 MILITARY CONS	STRUC	TION	N PROJ	ЕСТ	DATA	2. Date Feb	2016
3. Installation and Lo	ocation/UIC:			4. Pro	ject Title:				
Campia Turzi	i AB, Ron	nania		ERI: Construct Squadron Operations Building					ons
5. Program Element		6. Category Code	7. Projec	et Numl	ber	8. Pro	oject Cost (\$00	0)	
TBD		TBD	LRO	CT15(0010		3,4	00	
		9. COST	ESTIMA	TES	1		1		
PRIMARY FACILI	TY	Item		U/M	Quant	ity	Unit Cost	Cos	t (\$000) TBD
SUPPORTING FAC	CILITIES								TBD
TOTAL REQUEST 3,40							3,400		
TOTAL REQUEST (ROUNDED)									TBD
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)									(TBD)
10. Description of during mobilization to conduct briefing and conduct flying	Proposed (n to Campia s and prepar operations.	Construction: This project Turzii. Currently, US force re for flight operations. Thi	constructes support	ts a 7,(rting E will pi	000 square RI initiati rovide aire	e foot i ves do crews	facility to sup not have a d with work sp	pport airc edicated ace to ma	rews facility anage
Air conditioning:	TBD								
11. Requirement	: TBD	Adequate: TBD	Substa	ndard	: TBD				
<u>PROJECT:</u> ERI: C REOUIREMENT:	Construct Sq This project	uadron Operations Building t will enhance Allied and p	g artner na	tion ca	pabilities	to con	duct increase	d ioint a	nd
combined operation	ns, and will	support NATO Allies in set	tting cond	litions	through t	he air	domain. This	s project	also
provides the infrast	tructure nece	essary for command and com	ntrol, and	lincrea	ases the ca	apacity	for bed-dow	n of airc	raft.
IMPACT IF NOT	PROVIDED	: Aircrews will not be able	e to condu	lct con	nmand an	d conti	rol functions.	The Air	Force
will be limited in the	will be limited in their ability to bed down additional missions and aircraft at Campia Turzii. Currently, there are								
significant limitations on the ability to accomplish the mission. Failure to fund this project will restrict flying operations, and significantly limit the Department's ability to support peacetime and contingency operations.									
ADDITIONAL: The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This									
JOINT USE CERT	TIFICATION	<u>V:</u> TBD							
12. Supplemental	l Data:								
(1) Status	ata (Estimat S								
(a) D	Date Design S	Started						TBD	
(b) P (c) D	Date Design 3	35% Complete					М	ar 17	
	0	*							

1. Component	FY 201	17 MILITARY CONS	STRUC	TION PROJ	IECT DATA	2. Date Feb 2016
3. Installation and Lo	cation/UIC:			4. Project Title:		
Campia Turzi	i AB, Ron	nania		ERI: Cons Building	struct Squadron	Operations
5 Program Element		6 Category Code	7 Proie	ct Number	8 Project Cost (\$0))())
		TDD				100
TBD		TBD	LR	CT150010	3,2	100
(d) D	Date Design	100% Complete				TBD
(e) P	arametric Co	ost Estimates Used to Deve	elop Cost	S		Yes
(f) T	ype of Desig	gn Contract)outourso	TBD		
(2) Basis	nergy study	and Life Cycle Analysis r	remonined	1		IDD
$\begin{array}{c} (2) \text{Dasis} \\ (a) S \end{array}$	Standard or I	Definitive Design Used				TBD
(b) V	Vhere Desig	n Was Previously Used				IDD
(3) Total	Cost	,, <u>,</u>			(\$000)
(a) P	roduction of	f Plans and Specification			· · · · · · · · · · · · · · · · · · ·	TBD
(b) A	All Other De	esign Costs				TBD
(c) T	Total Cost (a	(a + b or d + e)				TBD
(d) (Contract Cos	st				TBD
(e) I	n-House Co	st				TBD
(4) Constr	ruction Cont	tract Award Date				Jul 17
(5) Constr	ruction Start	t Date			S	ep 17
(6) Constr	ruction Com	pletion Date		116 1	S	Sep 18
B. Equipmen	t associated	with this project which wi	II be prov	rided from other	appropriations:	
Equipment		Procuring	FY	Appropriated	Cost	
<u>Nomenclatu</u>	re	<u>Appropriation</u>		or Requested	<u>(\$000)</u>	
TBD		TBD		TBD	TBD	
This DD13 visits and engineeri DoD. These budge may review and act	91 is based ng estimate t quality DI t upon relia	on preliminary estimates es that accurately define p D 1391 documents will be ble project data.	. Budge project so provide	t quality 1391 d cope, cost and t to the Congre	locuments, based o imeline, are in coo ss in early spring s	on completed site rdination within so that Congress

1. Component Air Force	FY 201	7 MILITARY CO	ONSTRUC	TION	N PROJ	ECT	DATA	2. Date Feb 2016
3. Installation and Location	on/UIC:			4. Pro	ject Title:			1
Campia Turzii Al	B, Rom	ania		ER	I: Cons	truct	Two-Bay I	Hangar
5. Program Element		6. Category Code	7. Projec	et Numb	ber	8. Pr	oject Cost (\$00)0)
TBD		TBD	LRO	CT150)009		6,1	.00
		9. CO	DST ESTIMA'	ГЕЅ				
PRIMARY FACILITY	Ι	tem		U/M	Quant	tity	Unit Cost	Cost (\$000) TBD
SUPPORTING FACILI	TIES							TBD
TOTAL REQUEST								6,100
TOTAL REQUEST (ROUNDED)								TBD
EQUIPMENT FROM O	THER AI	PPROPRIATIONS (NON	N-ADD)					(TBD)
10. Description of Pro center, backshop, and a aircraft rotations in sup	posed C aircraft g	Construction: This pro round equipment storag Operation Atlantic Reso	oject construc ge. The US c olve.	ts a two loes no	o bay har t have a u	igar w isable	ith a mainten hangar to uti	ance operations lize during
Air conditioning: TBI	C							
Air conditioning: TBD 11. Requirement: TBD Adequate: TBD Substandard: TBD PROJECT: ERI: Construct Two-Bay Hangar REQUIREMENT: This project will enhance Allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. Squadron rotations to Campia Turzii have to send aircraft to Germany to perform routine maintenance during inclement weather. This project also provides the infrastructure necessary for command and control, and increases the capacity for bed-down of aircraft (parking and maintenance abilities). CURRENT SITUATION: TBD IMPACT IF NOT PROVIDED: Aircraft will not be properly parked or maintained during periods of inclement weather and darkness. The Air Force will be limited in their ability to bed down additional missions and aircraft at Campia Turzii. Additionally, the Air Force will continue to send aircraft to Germany which significantly increases time before sortie generation. Currently, there are significant limitations on the ability to accomplish the mission. Failure to fund this project will restrict operations. Applificantly impact throughput, and limit the Department's ability to support peacetime and contingency operations. ADDITIONAL: The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing. JOINT USE CERTIFICATION: TBD								

1. Component	FY 201	17 MILITARY CONS	STRUC	TION PROJ	ECT DATA	2. Date Feb 2016
Air Force	cation/IIIC:			1 Project Title:		100 2010
				4. Hojeet Hue.		
Campia Turzi	1 AB, Ron	nania		ERI: Cons	truct Two-Bay	Hangar
5. Program Element		6. Category Code	7. Projec	et Number	8. Project Cost (\$0)0)
TBD		TBD	LRO	CT150009	6,1	100
13112. SupplementalA. Design D(1) Status(a) E(b) F(c) E(d) I(e) F(f) T(g) E(2) Basis(a) S(b) V(3) Total(a) F(b) V(3) Total(a) F(b) A(c) T(d) C(e) I(4) Const(5) Const(6) ConstB. Equipment	I Data: ata (Estimat Soate Design Soate Design Soate Design Soate Design Soate Design Soate Design Soate Design Soate Design Study Standard or I Where Design Cost Production of All Other Design Cost Standard Cost (a Contract Cost Cost n-House Corruction Contruction Start ruction Corruc	res) Started plete as of January 2016 35% Complete 100% Complete ost Estimates Used to Deve gn Contract and Life Cycle Analysis P Definitive Design Used n Was Previously Used f Plans and Specification sign Costs + b or d + e) tt st tract Award Date Date upletion Date with this project which wil	lop Costs erformed	ided from other	Appropriations:	TBD 0% far 17 TBD Yes TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD
Equipment		Procuring	FY	Appropriated	Cost	
Nomenclatu TBD	ire	<u>Appropriation</u> TBD	<u>(</u>	or Requested TBD	<u>(\$000)</u> TBD	
This DD13 visits and engineer DoD. These budge may review and ac	91 is based ing estimate t quality DI t upon relia	on preliminary estimates. es that accurately define p D 1391 documents will be ble project data.	, Budget roject sc provided	quality 1391 d ope, cost and ti l to the Congre	ocuments, based o meline, are in coo ss in early spring s	in completed site rdination within so that Congress

1. Component Air Force	FY 20 1	17 MILITARY CONS	STRUC	TION	N PROJ	ЕСТ	DATA	2. Date Feb 2016
3. Installation and Lo	ocation/UIC:			4. Pro	ject Title:			
Campia Turzi	i AB, Ron	nania		EF	RI: Exter	nd Pa	rking Apror	IS
5. Program Element		6. Category Code	7. Proje	ct Numl	ber	8. Pro	oject Cost (\$000))
TBD		TBD	LRO	CT15(0007		6,00	00
0 COST ESTIMA							-	
		Item	<u>ESTIVIA</u>	U/M	Quant	tity	Unit Cost	Cost (\$000)
PRIMARY FACILI	ITY			0,111				TBD
SUPPORTING FAC	CILITIES							TBD
TOTAL REQUEST								6,000
TOTAL REQUEST	(ROUNDEI	D)						TBD
EQUIPMENT FRO	M OTHER A	PPROPRIATIONS (NON-A)	DD)					(TBD)
10. Description of parking spots whic have to park aircra enables rotations to Air conditioning:	Proposed (th facilitate a ft on multipl cocentralized TBD	Construction: This project a squadron of 12 fighter jets le small aprons which creat l parking reducing distance,	t expands s. Curren es a barri /time betv	the ex tly, squ er for r ween ai	isting figl adrons su naintenar rcraft.	nter ap upportince and	ron to allow fo ing rotations a l aircrews. Th	or additional t Campia Turzii is project
11. Requirement	: TBD	Adequate: TBD	Substa	ndard	: TBD			
PROJECT: ERI: H	Extend Parki	ng Aprons			1 .1		1	
<u>REQUIREMENT</u> : combined operatio	This project ns. and will	t will enhance Allied and p support NATO Allies in se	eartner na	tion ca	pabilities through t	to con he air	duct increased domain. Curre	l joint and int AGM aprons
are natural earth ar	nd concrete c	construction, yielding an un	safe worl	ksite w	ith numer	ous ru	its and uneven	surfaces due to
erosion. This proje	ect also prov	vides the infrastructure nece	essary for	comm	and and c	ontrol	, and increases	the capacity for
CURRENT SITUA	<u>ATION</u> : TB	D						
IMPACT IF NOT	PROVIDED	: The Air Force will be lin	nited in tl	heir abi	lity to be	d dow	n additional m	issions and
aircraft at Campia	Turzii. Airc	craft will not be properly pa	rked or n Currently	naintaii there	ned during	g perio ficant l	ods of inclement	nt weather and the ability to
accomplish the mis	ssion. Lack	of adequate apron space wi	ill impose	e signif	icant chal	llenges	s for aircrews a	and maintenance
crews. Failure to f	und this pro	ject will restrict operations.	, significa	antly in	npact thro	ughpu	t, and limit the	e Department's
ability to support peacetime and contingency operations. ADDITIONAL: The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This								
project will be submitted for pre-financing.								
JOINT USE CERT	TFICATION	<u>n:</u> TBD						

1. Component	FY 201	7 MILITARY CONS	TRUC	TION PROJ	ЕСТ ДАТА	2. Date		
Air Force						Feb 2016		
3. Installation and Lo	ocation/UIC:			4. Project Title:				
Campia Turzi	i AB, Ron	nania		ERI: Exter	nd Parking Apro	ons		
5. Program Element		6. Category Code	7. Projec	et Number	8. Project Cost (\$0	00)		
TBD		TBD	LRO	CT150007	6,	6,000		
12. Supplementa A. Design D (1) Statu (a) I (b) F (c) I (d) I (e) F (f) T (g) F (2) Basis (a) I (b) V (3) Total (a) I (b) V (3) Total (a) I (b) I (c) T (d) C (e) I (4) Consta (5) Consta (6) Consta	I Data: ata (Estimat S) Date Design S Date Design S Date Design S Date Design Date Design Carametric Co Ype of Desig Carametric Co Ype of Desig Carametric Co Standard or I Where Desig Cost Production o All Other De Fotal Cost (a Contract Cos n-House Co ruction Com ruction Start ruction Com	Started plete as of January 2016 35% Complete 100% Complete ost Estimates Used to Deve gn Contract and Life Cycle Analysis P Definitive Design Used n Was Previously Used f Plans and Specification esign Costs .+ b or d + e) st st tract Award Date : Date upletion Date	lop Costs erformed	5	N ((TBD 0% Mar 17 TBD Yes TBD TBD TBD (\$000) TBD TBD TBD TBD TBD TBD Jul 17 Sep 17 Sep 18		
B. Equipment Equipment <u>Nomenclatt</u> TBD This DD13 visits and engineer DoD. These budge may review and ac	11 associated 11 associated 11 associated 13 associated 14 associated 15 associated 16 associated 17 associated 18 associated 19 ass	with this project which wil Procuring <u>Appropriation</u> TBD on preliminary estimates. es that accurately define p D 1391 documents will be ble project data.	l be prov FY G	ided from other Appropriated <u>or Requested</u> TBD quality 1391 d ope, cost and ti I to the Congres	appropriations: Cost (<u>\$000)</u> TBD ocuments, based o meline, are in coo ss in early spring	on completed site ordination within so that Congress		



Department of the Air Force

Military Construction Program

Fiscal Year (FY) 2017 Counter-Terrorism Support Request

Justification Data Submitted to Congress February 2016

DEPARTMENT OF THE AIR FORCE FISCAL YEAR 2017 COUNTER-TERRORISM SUPPORT REQUEST TABLE OF CONTENTS

PAGE NUMBER

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Program Summary	313
Military Construction Projects	315

DEPARTMENT OF THE AIR FORCE COUNTER TERRORISM SUPPORT MILITARY CONSTRUCTION FISCAL YEAR 2017 PROGRAM SUMMARY

	Authorization Request <u>(\$000s)</u>	Appropriation Request <u>(\$000s)</u>
Military Construction		
Planning and Design (10 USC 2807)	9,000	9,000
Total Military Construction	9,000	9,000

1. COMPONENT	. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA				ATA	2. DATE	
AIR FORCE			(computer gen	erate	d)		
3. INSTALLATION	, SITH	E AND LOCATION		4. PF	ROJECT TITL	E	
HQ USAF	HQ USAF CTS: PLANNING AND DESIGN			ND DESIGN			
DISTRICT OF COL	UMBIA						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PI	ROJECI	NUMBER	8. PROJECT CO	DST (\$000)
91211		961-000	/PA1	AYZ18003 9,000		0	
		9.	COST ESTIMA	TES	_	I	
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILIT	ES						9,000
PLANNING AND D	ESIGN			LS			(9,000)
SUPPORTING FACII	ITIES						0
SUBTOTAL						_	9,000
TOTAL CONTRACT C	COST						9,000
TOTAL REQUEST							9,000
TOTAL REQUEST (F	OUNDE	D)					9,000
10. Descripti	on of	Proposed Constru	action:				
11. Requiremen	t:	Adequate:	Substanda	rd:			
PROJECT: As required. REQUIREMENT: These planning and design funds are required to complete the design of							
facilities in the Overseas Contingency Operations (OCO) Military Construction Program for support to regional counter terrorism efforts. 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 progra	ms.						



Department of the Air Force

Host Nation Military Construction Program

Calendar Year (CY) 2017-2018 Budget Estimates

Justification Data Submitted to Congress February 2016

DEPARTMENT OF THE AIR FORCE HOST NATION MILITARY CONSTRUCTION CALENDAR YEAR 2017 AND 2018 TABLE OF CONTENTS

PAGE NUMBER

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Index (List of Project)	323
Military Construction Projects	325

DEPARTMENT OF THE AIR FORCE HOST NATION MILITARY CONSTRUCTION CALENDAR YEAR 2017 AND 2018 PROGRAM SUMMARY

	Authorization Request <u>(\$000s)</u>	Appropriation Request <u>(\$000s)</u>
Military Construction		
Calendar Year 2017	207,500	207,500
Calendar Year 2018	145,500	145,500
Total Military Construction	353,000	353,000

Strategic Narrative

The enclosed justification book represents the Unites States Forces Korea (USFK) Republic of Korea Funded Construction (ROKFC) program for 2017 through 2018. Both program years (2017 and 2018) of ROKFC must be authorized at one time because the ROKFC program follows the host nation budget process, which for the Republic of Korea (ROK) Government is the calendar year (1 January thru 31 December). A ROK Government fiscal year straddles two U.S. fiscal years. Although the justification book may appear to be a list of individual projects, these projects were developed in coordination with each other to form an overall consolidated program to meet the USFK priorities and the Theater Infrastructure Master Plan – Armistice (TIMP-A) objectives. They have gone 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 CALENDAR YEAR 2017 AND 2018 INDEX (DOLLARS IN THOUSANDS)

STATE/COUNTRY	INSTALLATION	PROJECT	COST
REPUBLIC OF KOREA	Kunsan	132,500	
		Upgrade Electrical Distribution System	13,000
		Kunsan TOTAL:	145,500
	Osan	Air Freight Terminal Facility	40,000
		Construct F-16 Quick Turn Pad	7,500
		Construct Korea Air Operations Center	160,000
		Osan TOTAL:	207,500
		REPUBLIC OF KOREA TOTAL:	353,000
		HOST NATION FUNDED CONSTRUCTION TOTAL:	353,000

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1 COMPONENT							2	DATE
AIR FORCE	REPUBI	LIC OF KOREA FUN	DED C	ONSTR	UCTION	(ROK	(FC)	DAIL
3. INSTALLATION	AND LOCA	TION		4. PROJE	CT TITLE:			
KUNSAN AIR B	ASE, REP	UBLIC OF KOREA		3 RD GENI SHELTE	ERATION RS (HASs	NHARD	DENED A	AIRCRAFT
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. PRO	JECT NUM	BER	8. PRO.	JECT CO	ST (\$000)
N/A		141-182	F18 ML	R550 WR03312	3-4		132,5	500
		9. COST	ESTIMA	TES	T			
		ITEM		U/M	QUANTIT	Y U	INIT OST	COST (\$000)
PRIMARY FAC 3 RD GEN HAR	C ILITY DENED A	IRCRAFT SHELTERS		SM	19,09	98 4	,306.50	82,245 (82,245)
SUPPORTING	FACILITI	IES		I.G.		1		35,973
UTILITIES STORM DRA	INAGE					1		(4,815)
PAVEMENTS	NAOL			SM	94.61	1	71.40	(1,419) (6,756)
SITE IMPRO	, VEMENTS	5		LS	> 1,01	1	, 11.10	(11,808)
SOFT GROUI	ND IMPRO	DVEMENT/EROSION CO	ONTRO	L LS		1		(3,237)
SPECIAL FO	UNDATIO	NS		LM	6,126	53	87.55	(5,395)
FUEL OIL TA	NK, 10,00	00 GAL		EA		9 1	26,700	(1,140)
DEMOLITIO		FION GYOTEM		SM	10,70)2	112	(1,199)
EATERIOR II	NFURMA	TION SYSTEM		LS		1		(204)
CONTINGENC	Y (5%)							5 911
TOTAL CONT	RACT CO	ST						$\frac{3,311}{124,129}$
SUPERVISION	, INSPEC	ΓΙΟΝ & OVERHEAD (6.	5%)					8,068
TOTAL REQU	EST							132,197
TOTAL REQU	EST (ROU	(NDED)						132,200
10. DESCRIPT	ION OF P	ROPOSED CONSTRUC	CTION:					
This project is Host Nation funded. Construct eighteen (18) third generation hardened aircraft shelters (HASs). The facility will include reinforced concrete foundation and floor slab, reinforced concrete roof/walls including steel lining plate, AFFF fire suppression system, electrical lighting system and telecommunications system. Also includes new PCC apron with airfield lighting/striping, site improvement, storm drainage system, utilities, and all other necessary site work and supporting facilities to complete the project. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. An energy-monitoring and control system (EMCS) will be included. The project includes demolition of 18 existing first generation HASs (512 SM each) and two aircraft power check pads at 10,702 SM. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC 3-260-01). This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. This project fulfills US requirements only and will be designed and constructed for US exclusive use.								
11. REQUIREMENT: 104 EAADEQUATE: 0 EASUBSTANDARD: 56 EAPROJECT:Construct eighteen (18) third generation hardened aircraft shelters (Current mission).								
REQUIREMENT necessary to prote accidental detona run-up can be per sustainment for the fight-in-place bas defense of the Re	<u>F:</u> Properly ect combat tion of nea formed ins he assigned as that prov public of k	y designed, adequately con fighter aircraft, air crews rby munitions, and to pro- side the shelter when doors l wing combat fighter aircr ides the essential first line Korea.	nfigured and sort vide a sa s are clo raft and e of defe	and furnis ie-generati fe working sed. Also, follow-on nse and su	whed harde on mainte g environr it is esser fighters. ' stained co	ened airc enance p nent whe ntial for That is i mbat air	eraft she ersonnel ere aircr combat mperativ r suppor	lters are l from aft engine readiness and ve at this t for the

DD Form 1391, DEC 76 (E-Form)

AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (I	ROKFC)	Z. DATE		
3. INSTALLATION	AND LOCATION				
KUNSAN AIR BA	ASE, REPUBLIC OF KOREA				
4. PROJECT TITLE		5. PROJEC	T NUMBER		
3RD GENERATION HARDENED AIRCRAFT SHELTERS, PHASES 4, 5, 6 MLWR0331					
3RD GENERATIO CURRENT SITU/ were constructed in repair/upgrade to re- including engine ru- exteriors of the she liners, electrical an environment and fc Concrete floors are are inadequate. El operations can be p air base hardened a shelters with prope enhance operational operational/sensitiv <u>IMPACT IF NOT</u> adequate protection personnel will com- aircraft and follow interdiction, and co- attack within only 15, A-10, F/A-22, installation's abilit <u>ADDITIONAL:</u> T Requirements." TI will be retained by 82-63-470-5400. <u>JOINT USE CER'</u> however, the scop	DN HARDENED AIRCRAFT SHELTERS, PHASES 4, 5, 6 <u>ATION</u> : The base has a total of 56 HASs and ten flow-through shelt a 1969-70 and are hardened on both front and rear sides. Each HAS hake it functionally adequate to protect combat assets and maintain d unup in the shelters when they are completely closed during hostile liters are cracked, resulting in water leaks and accelerated corrosion d mechanical systems, and ponding on the floor, all of which cause boreign object damage (FOD) risk to combat fighters located in the sh cracked and are another source of FOD. Mechanical ventilation and ectrical systems must be upgraded to keep the aircraft shelters functi- berformed in a safe and efficient manner. Also the existing HASs are ircraft shelters. Larger aircraft such as F-15, A-10, F/A-22, and F-3 r wing tip clearance. Therefore, adequate and fully functional shelted a security (OPSEC) by providing secure locations to prepare and late we missions by screening mission preparations from any opposing for <u>PROVIDED</u> : Aircraft will continue to be parked in substandard shelted a from accidental detonation of nearby munitions, pose a FOD risk, inue to work in an unsafe work environment. Consequently, surviv on fighters will be jeopardized with a corresponding reduction in compared and F-35 inside protected shelters with proper wing clearance. This y to accept and support follow-on forces. Chis project meets the criteria/scope specified in Air Force Manual 3 is is the 4th-6th phase of multi-phased project This project is located 'United States Forces Korea (USFK) for the foreseeable future. Bar 3rd Gen HASs: 19,098 SM = 205,570 SF. <u>THFICATION</u> : This facility can be used by other components on an e of the project is based on Air Force requirements.	MLWF requires m combat figh attack. The to the interi an unsafe v helters for p d AFFF fir- ional so ma e 1st genera 55 will not f ers are need unch orce. elters that de and mainter ability of w punteroffen red to respo larger aircr severely lin 22-1084, "Fa d on an inst se Civil Eng	Acisting HASs ajor iters, e concrete for wall working protection. e suppression intenance ation tactical it in the led to o not provide nance ring combat sives, air nd to an raft such as F- mits the acility tallation which gineer: 011- le" basis;		

1. COMPONENT						2	. DATE
AIR FORCE REPUB	LIC OF KOREA FUN	DED CONS	STRU	JCTIO	N (R(OKFC)	
3. INSTALLATION AND LOC	ATION	4. P	ROJE	CT TITLE	:		
KUNSAN AIR BASE, REPUBLIC OF KOREA UPGRADE ELECTRICAL DISTRIBUTION SYSTEM							
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT	NUME	BER	8. P	ROJECT CO	OST (\$000)
N/A	812-225	MLWI	R 701 R 8877	28		13	8,000
	9. CC	ST ESTIMATE	s				
	ITEM U/M QUANTITY UNIT COST (\$000)						
PRIMARY FACILITY							9,900
PRIMARY U/G ELECT	F DISTRIBUTION LINE		LM	12	2,000	425	(5,100)
LOAD & FAULT INTE	ERRUPTER SWITCHES		EA		80	60,000	(4,800)
SUPPORTING FACILIT	IES					,	1,706
EARTH WORK			LM	12	2,000	5	(60)
SITE IMPROVEMENT			LS				(180)
TRANSFORMER, PAI	D-MOUNTED		EA		52	8,000	(416)
UPGRADE SERVICE	TO BUILDINGS		EA		52	10.000	(520)
DEMOLITION			LM	11	1,000	30	(330)
DEWATERING & MIS	SC WORK		LS		,		(200)
SUBTOTAL							11.606
CONTINGENCY (5%)							580
TOTAL CONTRACT CO	ST						12,186
SUPERVISION, INSPEC	TION AND OVERHEAI	O(6.5%)					792
TOTAL REQUEST							12,978
TOTAL REQUEST (ROU	(NDED)						13,000
							10,000
10. DESCRIPTION OF PROPOSED CONSTRUCTION Upgrade existing overhead primary electric lines with new higher capacity underground primary lines is necessary to provide a reliable, survivable, and expandable electrical distribution system to support the base flying mission. The project includes removal of existing overhead electric lines and pole-mounted transformers, installation of new underground primary electric lines with concrete encased duct, manholes, load and fault interrupter switches, and pad-mounted transformers. Also includes upgrade services to buildings by eliminating overhead service drops with underground service lines, site improvements and all other necessary support to complete the project. The project includes demolition of 11,000 LM of existing overhead primary electrical distribution lines. 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 and an energy-monitoring and control system (EMCS) will be included.							
11. REQUIREMENT : 4 PROJECT: Upgrade Electr	46,544 LMADEQU.rical Distribution System.	ATE: 34,54 (Current Miss	4 LM sion)	SU	JBSTA	ANDARD:	0 LM
<u>REQUIREMENT:</u> A higher voltage distribution system is required to meet increased power demands, so the system must meet base power requirements reliably and economically. This is the final of a three-phased program to upgrade the Kunsan Air Base electrical distribution system.							
<u>CURRENT SITUATION</u> : Even though the 1 st and 2 nd phase of electrical distribution system upgrade was completed back in late 1980s, the existing leftover overhead electrical distribution system is Korean War vintage and needs to be replaced. Also the present system consists of overhead and underground distribution lines that do not have the capacity to support new facilities. Portions of the base overhead primary system are not rated for the voltage applied. Some insulators are rated at 5KV and the distribution system is 6.6KV.							
IMPACT IF NOT PROVID transmission lines will be fu also increasing the potential due to undersized transmissi impacted.	ED: As the demand for a rther exceeded. This wil for system damage. A s ion lines. If this project i	electrical ener ll increase the ubstantial am s not provided	gy con freque ount o d, miss	ntinues t ency of l of electric sion effe	o incre load sl cal ene ctiven	ease, the ca nedding and ergy will co ness will be	apacity of the d brownouts while ontinue to be lost adversely
DD Form 1391, DFC 76 (F-	Form)		MAY R		ERNALL	Y	PAGE NO. 1

1. COMPONENT		2. DATE			
AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION	(ROKFC)			
3. INSTALLATIO	N AND LOCATION				
KUNSAN AIR B	BASE, REPUBLIC OF KOREA				
4. PROJECT TITL	E	5. PROJECT NUMBER			
UPGRADE ELECTRICAL DISTRIBUTION SYSTEM MLW					
ADDITIONAL: Requirements." (USFK) for the for Electric Lines: 12	This project meets the criteria/scope specified in Air Force Manu This project is located on an installation which will be retained by preseeable future. Base Civil Engineer: 011-82-63-470-5400. N 2,000 LM (39,370 LF).	al 32-1084, "Facility 7 United States Forces Korea New Underground Primary			

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

DD Form 1391c, DEC 76 (E-Form)

1. COMPONENT						2. [DATE
AIR FORCE	REPUBLIC OF KOREA F	UNDED CON	ISTR		N (R	OKFC)	
3. INSTALLATION AND	LOCATION	4. PROJECT T	TTLE:			•	
OSAN AIR BASE, RE	EPUBLIC OF KOREA	AIR FREIGH	IT TE	ERMINA	LF	ACILITY	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT N	IUMB	ER	8. P	ROJECT CO	ST (\$000)
N/A	141-782	F17F SMYU	R601 1530	08		40	,000
	9. CC	DSTESTIMATES	>				
	ITEM		U/M	QUANTI	ΤY		COST (\$000)
PRIMARY FACILIT	Y						27,401
Cargo Terminal			SM	5,90	00	2,354	(13,889)
Administration Build	ding		SM	2,08	88	3,335	(6,963)
Vehicle Maintenance	e/Storage Building		SM	2,02	26	2,967	(6,011)
Sustainability and E	nergy Measures		SM	10,01	14	54	(538)
SUPPORTING FACI	LITIES						8,369
Utilities			LS				(1,250)
Back-up Power			LS				(500)
Pavements			LS				(2,922)
Site Improvements			LS	4,73	35	158	(1,699)
Demolition			SM				(748)
Communications Su	pport		LS				(1,250)
SUBTOTAL							35,770
CONTINGENCY (5	5%)						(1,789)
TOTAL CONTRACT	COST						37,559
SUPERVISION, IN	SPECTION AND OVERHEA	AD (6.5%)					<u>(2,441)</u>
TOTAL REQUEST							40,000
10. DESCRIPTION	N OF PROPOSED CONSTR						
This project is Host Na	ation funded. Construct an Ai	ir Freight Term	inal l	Facility; j	proje	ct includes (Cargo Terminal
and Administration Bu	ilding, Vehicle Maintenance	and Storage Bu	uildin	g, fire pr	otect	ion and alar	m systems, and
Energy Monitoring Co	ntrol Systems (EMCS) conne	ction and build	ling i	nformatio	on sy	stems. Supp	porting facilities
include demolition of e	existing buildings, site develo	pment, utilities	and	connectio	ons,	back-up pow	ver generator,
lighting, paving, parking	ng, walks, curbs and gutters, s	storm drainage,	info	rmation s	yste	ms, landscap	ing and signage.
Project includes 4,735	SM of demolition. Facilities	will be designed	ed as	permane	nt co	onstruction in	accordance with
the DoD Unified Facil	ities Criteria (UFC 1-200-01 a	and UFC 1-200)-02).	This pro	ject	will comply	with DoD
antiterrorism/force pro	tection requirements per UFC	C 4-010-01. Th	is pro	oject fulfi	lls U	S requireme	ents only and will
be designed and constr	ructed for US exclusive use.						
Air Conditioning: 200	Tons						
11. REQUIREMENT: 10	0,014 SM Al	DEQUATE: 0				SUBSTAND	ARD: 4,735SM
PROJECT: Construct	an Air Freight Terminal. (Cur	rrent Mission)					
DD Form 1391, DEC 99	(E-Form) PREVIOU	JS EDITIONS MAY BI	E USED	INTERNALL	Y		PAGE NO.1

FEBRUARY 2016

1. COMPONENT			2. DATE						
AIR FORCE	(ROKFC)								
3. INSTALLATION AND LOCATION									
OSAN AIR BASE, REPUBLIC OF KOREA									
4. PROJECT TITLE 5. PROJECT NUMBER									
AIR FREIGHT TERM	NAL FACILITY	SM	IYU153008						
<u>REQUIREMENT:</u> T combined warfightin support exercises, cri required interior and Staging, Onward Mo Command (CFC), Re AMC En Route Facil Operational areas we information received months = 799 pallets operations areas = 39 operations 731 AMS storage which is curr Subsistence (food), g sets and kits, hand to Ammunition of all ty propellants, and asso and toothpaste, writh sales items), Class V medical equipment, (V VIIIb – Blood & bloo parts and component maintenance support severe work around, several hundred rema maintain balance bet assist Internally Disp forward retail distribu and/or refrigerated st The facility must med Agency requirements (NESHAPS). Facilit storage, and cargo ter contamination avoida potable water trucks, vehicles. A vehicle r maintenance. Additi Cargo Terminal build command and contro and shipping of vario extension (covered st "18 wheelers" and m allow for unrestricted provided for hazardo	o provide an adequately-sized and properly configured Air Tr g capabilities in the Republic of Korea to include maintainin sis situations, evacuation operations, and kinetic operations. exterior storage and materiel handling capability to support th vement (RSO) in support of United States Forces Korea (USI public of Korea Air Forces (ROKAF) and United Nations Co- ity Criteria Handbook was used to provide guidance on allow re determined based upon a 36 month average of incoming an from AMS as follows: 28,795 pallets (incoming and outboun per month. Per En Route guidance, the allowable space alloo ,000 to 59,000 square feet. This excludes office areas. Durir will receive in excess of 300 pallets per day with a third requ ently lacking. These will consist various types of commoditic ratuitous (free) health and comfort items, Class II - individual ols, unclassified maps, administrative and housekeeping supp pes, bombs, explosives, mines, fuses, detonators, pyrotechnic ciated items, Class VI - Personal demand items (such as healt g material, snack food, beverages, cigarettes, batteries, alcoh III - Medical material (equipment and consumables) including Class VIIIa – Medical consumable supplies not including blo d components (whole blood, platelets, plasma, packed red ce s to include kits, assemblies, and subassemblies (repairable or of all equipment. Currently, Osan cannot support human ren significantly delaying repatriation efforts. During wartime op ins requiring transport at Osan will require indoor storage. T ween repatriation and incoming RSO forces. Additionally, du laced Persons (IDPs), Humanitarian Assistance (HA) will be iton. HA commodities include Class I, Class IV, and Class V orage. Projections exceed 1 million IPDs if the North Korea a in conjunction with current National Emission Standards for ies will include new structures to house functional areas inclu minal operations. Vehicle maintenance and storage building unce and maintenance for a variety of support vehicles includia iarraft lavatory fluid	erminal Fac ing armistice, The facility he 731 AMS FK), Combin pommand (Uh vable areas. and outgoing ind totals ove cation for en ing Continger itring inside/ es to include l equipment blies and equi- cs, missiles, th and hygie iol, and cam- g repair part bod & blood ells, etc.), an r non-repaira- nains repatri perations, at Chis inside st uring natural moved strat VIIIa/b whice regime colla- ederal Envire r Hazardous iding vehicles will provide ing: pallet lo a variety of utine on-den- tions will accoun- g in protected and efficience in protected and for items ne	ility for joint and while being able to will provide the in Reception, ned Forces NC) mission. The Terminal pallets based upon r 36 months) / 36 closed terminal ncy/surge 'covered/secure e Class I - , organizational tool ipment, Class V - rockets, ne products, soaps eras—nonmilitary s peculiar to products; Class d Class IX - Repair able) required for ation without any one time, orage is critical to d disasters and to egically to Osan for ch require covered apses. onmental Protection Air Pollutants e maintenance and e for the storage, paders, forklifts, specialized support and vehicle cur in this facility. as mission y for the receipt d area under roof chicles including ays are provided to storage areas are eding refrigeration.						

DD Form 1391, DEC 99 (E-Form)

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION	(ROKFC)	2. DATE				
3. INSTALLATION AND	LOCATION						
OSAN AIR BASE, F	REPUBLIC OF KOREA						
4. PROJECT TITLE		5. PROJECT	NUMBER				
AIR FREIGHT TERMINAL FACILITY SMYU153008							
<u>CURRENT SITUATION</u> : The project includes replacement of the existing 731 AMS Air Freight Terminal Operations facilities at Osan AB, Republic of Korea (ROK). The 731 AMS presently operates in outdated and inadequate cargo terminal facilities at Osan. Osan handles all inbound and outbound DoD and Joint Service air freight for the Korean Peninsula. The existing facilities are significantly below recommended AMC En Route guidelines. Smaller areas restrict efficient operations and capabilities during normal operations and preclude any capacity to surge when required. Existing facilities are both inefficient in design and layout and many are in need of repair including leaking roofs and inoperable heating systems. Mechanical and plumbing systems are missing and/or inadequate. The existing terminal has internal columns restricting vehicle movement and storage opportunity. Authorized storage occurs in separate facilities causing further inefficiencies. Dock and loading areas are inadequate and do not allow for side loading and unloading directly into the terminal restricting operational effectiveness. Facilities are inadequate to properly store vehicles providing protection from the elements and possible chemical contamination. Cargo (pallets) is stored on grade in the exterior grid yard. Cargo is regularly reported as damaged from rains and floods. Current layout does not provide a clear separation of secure and non-secure storage operations area on site. A lack of clear separation from secure and non-secure operations will continue to significantly limit operations.							
IMPACT IF NOT PR effectiveness and pose capabilities will exper The current storage, sp activities and wartime outdoor areas for func damaged from rain an infrastructure at Osan and USTRANSCOM)	OVIDED: Inadequate facilities will continue to significantly e significant risk to the 731 AMS contingency, armistice and ience significant limitations, with no surge capabilities for en- pread over two buildings, will continue to significantly degra- repatriation operations will continue to be unattainable. Per- tions requiring an indoor environment. Outdoor storage of ca d flooding and possible chemical contamination. In addition, will continue to significantly limit operations for two combat- as well as USFK (a subordinate unified command).	limit operati wartime miss nergencies of de peacetime sonnel will co argo will con current facil tant comman	ional efficiency and sion. Mission r contingencies. e repatriation ontinue to use ttinue to be ities and ds (USPACOM				
ADDITIONAL: This Requirements". Base	project meets applicable criteria/scope specified in Air Force Civil Engineer: 011-82-31-661-4312. Air Freight Terminal:	e Manual 32- 10,014 SM =	1084, "Facility = 107,789 SF.				
JOIN <u>T USE CERTIF</u> project is based on US	<u>CATION</u> : This facility can be used on an "as available" base SAF, USFK, CFC and UNC requirements.	is. However	, the scope of the				
	00 /F Farm)						

FEBRUARY 2016

PAGE NO.3

1. COMPONENT						2. C	DATE	
AIR FORCE					N (R0	OKFC)		
3. INSTALLATION AND	LOCATION	4. PROJECT	4. PROJECT TITLE:					
OSAN AIR BASE, RE	EPUBLIC OF KOREA	CONSTRUC	CT F-	16 QUIC		URN PAD		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT		ER	8. PI	ROJECT COS	ST (\$000)	
N/A	113-321	SMYU	1630	01		7,	500	
	9. CO	OST ESTIMATES	S					
	ITEM	_	U/M	QUANT	ITY	UNIT COST	COST (\$000)	
PRIMARY FACILIT F-16 Quick Turn Pa	<u>Y</u> d (8 Aircraft Parking Spots)		SM	15,0	00	176	2,640 (2,640)	
SUPPORTING FACI Airfield Edge and A Airfield marking Reroute Utilities Relocate Giant Voic Site Improvements Revetment Demo/Transporting SUBTOTAL Contingency (5%) TOTAL CONTRACT Supervision, Inspect TOTAL REQUEST (1)		LS LS LS LS LM LS	SM 15,000 LS LS LS LS LM 200 LS		6,000	4,110 (600) (70) (1,500) (100) (540) (1,200) (100) 6,750 (<u>338)</u> 7,088 (<u>461)</u> 7,548 7,500		
10. DESCRIPTION	N OF PROPOSED CONSTR		I					
Project is Host Nation Funded. Project constructs a F-16 Quick Turn Pad and includes construction of a new F-16 quick turn pad, airfield marking, airfield edge and apron lighting, tie-down anchors, airfield grounding system, shoulder pavement, reroute utilities, relocate switch gear, relocate giant voice, storm drainage, site improvements, revetment and all other necessary support. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC 3-260-01). This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. This project fulfills US requirements only and will be designed and constructed for US exclusive use.								
11. REQUIREMENT: 15 <u>PROJECT:</u> Construct a	i,000 SM AI a F-16 Quick Turn Pad. (Curre	DEQUATE: 0 sent Mission)	SM			SUBSTAND	ARD: 15,000 SM	
REQUIREMENT: This project is required to construct a F-16 Quick Turn Pad in the northern area of Alpha Diamond in compliance with current Air Force standards and criteria. F-16 Quick Turn Pad needs to be large enough to park eight F-16s with the ability to taxi behind parked aircraft. Pad must be constructed to guidelines in UFC 3-260-01. Apron Lighting is also required for night operations and security.								

AIR FORCE REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)									
3. INSTALLATION AND LOCATION									
Osan Air Base, Korea									
4. PROJECT TITLE 5. PROJECT NUMBER									
CONSTRUCT F-16	QUICK TURN PAD	SM	IYU163001						
<u>CURRENT SITUATION:</u> Currently F-16s must be pushed back into Hardened Aircraft Shelters (HAS) between sorties to prepare the aircraft for the next flight. This requires the pilot to remain in the seat while a team of eight maintenance personnel push the plane back into the HAS. This is a time consuming process and reduces the time available to perform maintenance actions for the next mission. Constructing a quick turn pad eliminates the need for push-backs for the aircraft parked on it. Additionally, maintenance will have most aircraft for the next mission in close proximity to one another, reducing maintenance time, manpower and travel time. The quick turn pad will free up more than 5 000 man-hours per year.									
IMPACT IF NOT PR continual time consum to a point where maint back requirements.	<u>OVIDED:</u> If this project is not provided, mission accomplishing efforts and decreasing efficiency. Training loss is also a senance no longer has time to perform critical inspections or	hment will be a reality as eff actions on air	e degraded by ficiency decreases rcraft due to push-						
ADDITIONAL: This Requirements." Base	project meets applicable criteria/scope specified in Air Force Civil Engineer: 011-82-31-661-4312. F-16 Quick Turn Pad:	e Manual 32- : 15,000 SM :	1084, "Facility = 161,459 SF.						
<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.									

									DATE
AIR FORCE	REP	UBLIC OF KOREA FUN		ONSTR	лост		(ROK	(FC)	DATE
3. INSTALLATION AN		ATION	4	I. PROJ	JECT -	TITLE:			
OSAN AIR BASE			(ст кс	REA	AIR OP	ERATIONS
REPUBLIC OF KO	REA						0 00		
5. PROGRAM ELEME	NI	6. CATEGORY CODE	7. PROJE	F15R6	мвек 80		8. PF		
N/A		141-446	SM	/IYU14	3001			160),000
		9. COST	T ESTIMAT	TES	1	T			1
		ITEM			U/M	QUAN	ΝΤΙΤΥ	UNIT COST	COST (\$000)
PRIMARY FACIL	<u>ITY</u>				a 1				104,088
Combined Air & In	telliger	nce Operations Center (US	S Only)	Classes)	SM	3	,467	6,515	(22,586)
Combined Air & In Sustainability and H	Itelliger	ice Operations Center (US	& RUK	Share)	SM	12	,198	0,515	(79,465)
Sustainability and I	Linergy	wieasures			SIVI	15	,005	150	(2,030)
SUPPORTING FA	CILIT	IES							38,975
UTILITIES					LS				(7,189)
COMMUNICATIO	DNS SU	JPPORT			LS				(12,500)
SITE IMPROVEM	ENTS				LS	10	000	120	(8,075)
PAVEMENI PASSIVE AT/FP					1 S	18	,000	130	(2,340)
PARKING STRUC	TURE	(400 cars)			SM	14	.500	560	(8.116)
DEMOLITION/MI	SCELL	LANEOUS			SM		813	130	<u>(106)</u>
SUBTOTAL CONTINGENCY (5%) TOTAL CONTRACT COST SUPERVISION, INSPECTION AND OVERHEAD (6.5%) TOTAL REQUEST TOTAL REQUEST (rounded)									143,063 7.153 150,216 9.764 159,980 160,000
10. DESCRIPTION OF	PROP	OSED CONSTRUCTION:							
TOTAL REQUEST TOTAL REQUEST (rounded) 159,980 160,000 160,000 10. DESCRIPTION OF PROPOSED CONSTRUCTION: 160,000 This project is host-nation funded. Construct a 40,142 SM combined Korea Air Operations Center. This project only includes approximately 3,467 SM of US only use area and 12,198 SM of joint use area in the overall 40,142 SM. The facility consists of a multi-story hardened concrete structure partially below grade. The facility must be adequately protected from conventional weapons as well as high altitude electromagnetic pulse. Many specialized security systems must be built into the interior layout including USAF only rooms, ROKAF only rooms and combined USAF-ROKAF organizations requiring partition walls. Approximately 80% of the floor space will utilize a raised access floor system for upgrades and/or repair of communication system lines as required. Additional flexibility is required to allow for future expansion utilizing mezzanine systems allowed by the high floor to floor dimension of 5.4 meters subject to initial mechanical, electrical, comm. and plumbing infrastructure planning. The Air Operations Center's main operations floor requires a special constructed raised ops floor that will require a pit floor and tiered operator seating. This seating requirement along with the two story Ops floor, allows direct sightlines from the Ops floor battle cabs (both USAF and ROKAF) and within the Ops floor itself. The visual sightlines are considered paramount to the Ops floor flexibility and usability. The open 2-story Ops floor is best described as a "center of gravity" and will be centrally placed amongst USAF and ROKAF organizations with required as a "center of fliciency to conduct Air & Intelligence operations. Additionally the overall project includes a 14,500 SM parking garage and a pedestrian tunnel, as well as two (2) reloc									

Air Conditioning: 1,000 Tons

DD Form 1391, DEC 99 (E-Form)