

Department of the Air Force

Military Construction Program

Fiscal Year (FY) 2016 Budget Estimates

Justification Data Submitted to Congress February 2015

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DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION AND MILITARY FAMILY HOUSING FISCAL YEAR 2016 PROGRAM SUMMARY

	Authorization	Appropriation
	Request	Request
	<u>(\$000s)</u>	<u>(\$000s)</u>
Military Construction		
Inside the United States	769,750	855,750
Outside the United States	306,841	341,241
Unspecified Locations	80,130	80,130
Unspecified Minor Construction (10 USC	2805)	22,900
Planning and Design (10 USC 2807)		89,164
Total Military Construction	1,156,721	1,389,185
Military Family Housing		
New Construction	0	0
Improvements	150,649	150,649
Planning and Design	9,849	9,849
Subtotal	160,498	160,498
Operations, Utilities and Maintenance	260,811	260,811
Operations	105,871	105,871
Utilities	40,811	40,811
Maintenance	114,129	114,129
Privatization	41,554	41,554
Leasing	28,867	28,867
Subtotal	331,232	331,232
Total Military Family Housing	491,730	491,730
Grand Total Air Force	1,648,451	1,880,915

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DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016 INDEX - INSIDE THE US (DOLLARS IN THOUSANDS)

			AUTHORIZATION	APPROPRIATION
STATE/COUNTRY	INSTALLATION	PROJECT	REQUEST	REQUEST
ALASKA	Eielson	F-35A Flight Sim/Alter Squad Ops/AMU Facility	37,000	37,000
		Rpr Central Heat & Power Plant Boiler Ph3	34,400	34,400
		Eielson TOTAL:	71,400	71,400
		ALASKA TOTAL:	71,400	71,400
ARIZONA	Davis Monthan	HC-130J AGE Covered Storage	4,700	4,700
		HC-130J Wash Rack	12,200	12,200
		Davis Monthan TOTAL:	16,900	16,900
	Luke	F-35A ADAL Fuel Offload Facility	5,000	5,000
		F-35A Aircraft Maintenance Hangar/Sq 3	13,200	13,200
		F-35A Sq Ops/AMU/Hangar/Sq 4	33,000	33,000
		F-35A Bomb Build-Up Facility	5,500	5,500
		Luke TOTAL:	56,700	56,700
		ARIZONA TOTAL:	73,600	73,600
COLORADO	U.S. Air Force Academy	Front Gates Force Protection Enhancements	10,000	10,000
	-	U.S. Air Force Academy TOTAL:	10,000	10,000
		COLORADO TOTAL:	10,000	10,000
FLORIDA	Cape Canaveral	Range Communications Facility	21,000	21,000
		Cape Canaveral TOTAL:	21,000	21,000
	Eglin	F-35A Consolidated HQ Facility	8,700	8,700
	C	Eglin TOTAL:	8,700	8,700
	Hurlburt Field	Add to 39 IOS Facility	14,200	14,200
		Hurlburt Field TOTAL:	14,200	14,200
		FLORIDA TOTAL:	43,900	43,900
HAWAII	JBPH Hickam	F-22 Fighter Alert Facility	46,000	46,000
		JBPH Hickam TOTAL:	46,000	46,000
		HAWAII TOTAL:	46,000	46,000
KANSAS	McConnell	KC-46A ADAL Deicing Pads	4,300	4,300
		McConnell TOTAL:	4,300	4,300
		KANSAS TOTAL:	4,300	4,300
MARYLAND	Ft Meade	CYBERCOM Joint Operations Center, Increment 3	0	86,000
		Ft Meade TOTAL:	0	86,000
		MARYLAND TOTAL:	0	86,000
MISSOURI	Whiteman	Consolidated Stealth Ops & Nuclear Alert Fac	29,500	29,500
		Whiteman TOTAL:	29,500	29,500
		MISSOURI TOTAL:	29,500	29,500
MONTANA	Malmstrom	Tactical Response Force Alert Facility	19,700	19,700
		Malmstrom TOTAL:	19,700	19,700
		MONTANA TOTAL:	19,700	19,700
NEBRASKA	Offutt	Dormitory (144 RM)	21,000	21,000
		Offutt TOTAL:	21,000	21,000
		NEBRASKA TOTAL:	21,000	21,000
NEVADA	Nellis	F-35A Airfield Pavements	31,000	31,000
		F-35A Live Ordnance Loading Area	34,500	34,500
		F-35A Munitions Maintenance Facilities	3,450	3,450
		Nellis TOTAL:	68,950	68,950
		NEVADA TOTAL:	68,950	68,950

DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016 INDEX - INSIDE THE US (DOLLARS IN THOUSANDS)

			AUTHORIZATION	APPROPRIATION
STATE/COUNTRY	INSTALLATION	PROJECT	REQUEST	REQUEST
NEW MEXICO	Cannon	Construct AT/FP Gate - Portales	7,800	7,800
		Cannon TOTAL:	7,800	7,800
	Holloman	Marshalling Area ARM/DE-ARM Pad D	3,000	3,000
		Holloman TOTAL:	3,000	3,000
	Kirtland	Space Vehicles Component Development Lab	12,800	12,800
		Kirtland TOTAL:	12,800	12,800
		NEW MEXICO TOTAL:	23,600	23,600
NORTH CAROLINA	Seymour Johnson	Air Traffic Control Tower/Base Ops Facility	17,100	17,100
		Seymour Johnson TOTAL:	17,100	17,100
		NORTH CAROLINA TOTAL:	17,100	17,100
OKLAHOMA	Altus	Dormitory (120 RM)	18,000	18,000
		KC-46A FTU ADAL Fuel Cell Maintenance	10,400	10,400
		Altus TOTAL:	28,400	28,400
	Tinker	Air Traffic Control Tower	12,900	12,900
		KC-46A Depot Maintenance Dock	37,000	37,000
		Tinker TOTAL:	49,900	49,900
		OKLAHOMA TOTAL:	78,300	78,300
SOUTH DAKOTA	Ellsworth	Dormitory (168 RM)	23,000	23,000
		Ellsworth TOTAL:	23,000	23,000
		SOUTH DAKOTA TOTAL:	23,000	23,000
TEXAS	JBSA - Lackland	BMT Classrooms/Dining Facility 3	35,000	35,000
		BMT Recruit Dormitory 5	71,000	71,000
		JBSA - Lackland TOTAL:	106,000	106,000
		TEXAS TOTAL:	106,000	106,000
UTAH	Hill	F-35A Flight Simulator Addition Phase 2	5,900	5,900
		F-35A Hangar 40/42 Additions and AMU	21,000	21,000
		Hayman Igloos	11,500	11,500
		Hill TOTAL:	38,400	38,400
		UTAH TOTAL:	38,400	38,400
WYOMING	FE Warren	Weapon Storage Facility	95,000	95,000
		FE Warren TOTAL:	95,000	95,000
		WYOMING TOTAL:	95,000	95,000
		INSIDE THE US TOTAL:	769,750	855,750

DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016 INDEX - OUTSIDE THE US (DOLLARS IN THOUSANDS)

			AUTHORIZATION	APPROPRIATION
STATE/COUNTRY	INSTALLATION	PROJECT	REQUEST	REQUEST
GREENLAND	Thule	Consolidation Ph 1	41,965	41,965
		Thule TOTAL:	41,965	41,965
		GREENLAND TOTAL:	41,965	41,965
GUAM	JRM - Andersen	APR - Dispersed Maint Spares & SE Storage Fac	19,000	19,000
		APR - Installation Control Center	22,200	22,200
		PAR - LO/Corrosion Control/Comp Rpr	0	34,400
		APR - South Ramp Utilities	7,100	7,100
		PRTC Roads	2,500	2,500
		JRM - Andersen TOTAL:	50,800	85,200
		GUAM TOTAL:	50,800	85,200
JAPAN	Yokota	C-130J Flight Simulator Facility	8,461	8,461
		Yokota TOTAL:	8,461	8,461
		JAPAN TOTAL:	8,461	8,461
NIGER	Agadez	Construct Airlift and Base Camp	50,000	50,000
		Agadez TOTAL:	50,000	50,000
		NIGER TOTAL:	50,000	50,000
OMAN	Al Musannah	Airlift Apron	25,000	25,000
		Al Musannah TOTAL:	25,000	25,000
		OMAN TOTAL:	25,000	25,000
UNITED KINGDOM	RAF Croughton	Consolidated SATCOM/Tech Control Facility	36,424	36,424
		JIAC Consolidation - Ph 2	94,191	94,191
		RAF Croughton TOTAL:	130,615	130,615
		UNITED KINGDOM TOTAL:	130,615	130,615
		OUTSIDE THE US TOTAL:	306,841	341,241
WORLDWIDE UNSPECIFIED	Worldwide Classified	Long Range Strike Bomber	77,130	77,130
	Worldwide Classified	Munitions Storage	3,000	3,000
	Various Locations	Unspecified Minor Military Construction		22,900
	Various Locations	Planning and Design	00.100	89,164
		WORLDWIDE UNSPECIFIED TOTAL:	80,130	192,194
		INSIDE THE US TOTAL:	769.750	855.750
		OUTSIDE THE US TOTAL:	306.841	341.241
		WORLDWIDE UNSPECIFIED TOTAL:	80,130	192,194
		FY 2016 TOTAL:	1,156,721	1.389.185

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DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016 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>FY16</u>	<u>(\$000)</u>	<u>(\$000)</u>
NEW MISSION	665,332	775,732
CURRENT MISSION	501,389	501,389
MINOR CONSTRUCTION		22,900
PLANNING & DESIGN		89,164
TOTAL:	1,156,721	1,389,185

DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016 INDEX - CURRENT/NEW MISSION BREAKOUT (DOLLARS IN THOUSANDS)

			AUTH FOR	APPROPRIATION	
STATE/COUNTRY	INSTALLATION	PROJECT	APPROPRIATION	REQUEST	TYPE
ALASKA	Eielson	Rpr Central Heat & Power Plant Boiler Ph3	34,400	34,400	CM
COLORADO	U.S. Air Force Academy	Front Gates Force Protection Enhancements	10,000	10,000	CM
FLORIDA	Cape Canaveral	Range Communications Facility	21,000	21,000	CM
GREENLAND	Thule	Consolidation Ph 1	41.965	41.965	CM
MISSOURI	Whiteman	Consolidated Stealth Ops & Nuclear Alert Fac	29,500	29,500	CM
NEBRASKA	Offutt	Dormitory (144 RM)	21.000	21.000	CM
NEWMEXICO	Cannon	Construct AT/FP Gate - Portales	7.800	7.800	CM
NEWMEXICO	Kirtland	Space Vehicles Component Development Lab	12.800	12.800	CM
NORTHCAROLINA	Seymour Johnson	Air Traffic Control Tower/Base Ops Facility	17.100	17.100	CM
OKLAHOMA	Altus	Dormitory (120 RM)	18.000	18.000	CM
OKLAHOMA	Tinker	Air Traffic Control Tower	12,900	12,900	CM
SOUTH DAKOTA	Ellsworth	Dormitory (168 RM)	23.000	23.000	CM
TEXAS	IBSA - Lackland	BMT Classrooms/Dining Facility 3	35.000	35.000	CM
TEXAS	JBSA - Lackland	BMT Recruit Dormitory 5	71.000	71.000	CM
UNITED KINGDOM	RAF Croughton	Consolidated SATCOM/Tech Control Facility	36,424	36,424	CM
UTAH	Hill	Hayman Igloos	11.500	11.500	CM
WORLDWIDE CLASSIFIED	Worldwide Classified	Munitions Storage	3.000	3.000	CM
WYOMING	FF Warren	Weapon Storage Facility	95.000	95,000	CM
	TE watch		501 389	501 389	cim
		Current Mission TOTAL:	501,389	501,389	
AT A 5 V A	Fielcon	E 254 Elight Sim/Alter Squad One/AMII Easility	27,000	27.000	NIM
ALASKA	Eleison	F-55A Fight Sim/Alter Squad Ops/AMU Facility	37,000	37,000	NM
ARIZONA	Davis Monthan	HC-130J AGE Covered Storage	4,700	4,700	NM
ARIZONA	Davis Monthan	HC-150J Wash Rack	12,200	12,200	NM
ARIZONA	Luke	F-35A ADAL Fuel Official Facility	5,000	5,000	NM
ARIZONA	Luke	F-35A Aircraft Maintenance Hangar/Sq 3	13,200	13,200	NM
ARIZONA	Luke	F-35A Bomb Build-Up Facility	5,500	5,500	NM
ARIZUNA	Luke	F-35A Sq Ops/AMU/Hangar/Sq 4	33,000	33,000	NM
FLORIDA	Eglin	F-35A Consolidated HQ Facility	8,700	8,700	NM
FLORIDA	Hurlburt Field	Add to 39 IOS Facility	14,200	14,200	NM
GUAM	JRM - Andersen	APR - Dispersed Maint Spares & SE Storage Fac	19,000	19,000	NM
GUAM	JRM - Andersen	APR - Installation Control Center	22,200	22,200	NM
GUAM	JRM - Andersen	PAR - LO/Corrosion Control/Comp Rpr	0	34,400	NM
GUAM	JRM - Andersen	APR - South Ramp Utilities	7,100	7,100	NM
GUAM	JRM - Andersen	PRIC Roads	2,500	2,500	NM
HAWAII	JBPH Hickam	F-22 Fighter Alert Facility	46,000	46,000	NM
JAPAN	Yokota	C-130J Flight Simulator Facility	8,461	8,461	NM
KANSAS	McConnell	KC-46A ADAL Deicing Pads	4,300	4,300	NM
MARYLAND	Ft Meade	CYBERCOM Joint Operations Center, Increment 3	0	86,000	NM
MONTANA	Malmstrom	Tactical Response Force Alert Facility	19,700	19,700	NM
NEVADA	Nellis	F-35A Airfield Pavements	31,000	31,000	NM
NEVADA	Nellis	F-35A Live Ordnance Loading Area	34,500	34,500	NM
NEVADA	Nellis	F-35A Munitions Maintenance Facilities	3,450	3,450	NM
NIGER	Agadez	Construct Airlift and Base Camp	50,000	50,000	NM
NEWMEXICO	Holloman	Marshalling Area ARM/DE-ARM Pad D	3,000	3,000	NM
OKLAHOMA	Altus	KC-46A FTU ADAL Fuel Cell Maintenance	10,400	10,400	NM
OKLAHOMA	Tinker	KC-46A Depot Maintenance Dock	37,000	37,000	NM
OMAN	Al Musannah	Airlift Apron	25,000	25,000	NM
UNITED KINGDOM	RAF Croughton	JIAC Consolidation - Ph 2	94,191	94,191	NM
UTAH	Hill	F-35A Flight Simulator Addition Phase 2	5,900	5,900	NM
UTAH	Hill	F-35A Hangar 40/42 Additions and AMU	21,000	21,000	NM
WORLDWIDE CLASSIFIED	Worldwide Classified	Long Range Strike Bomber	77,130	77,130	NM
		New Mission TOTAL:	655,332	775,732	
WORLDWIDE UNSPECIFIED	Various Locations	Unspecified Minor Military Construction		22,900	UMMC
WORLDWIDE UNSPECIFIED	various Locations	Planning and Design		89,164	P&D
		Active AE Program TOTAL	1 156 721	1 380 185	
		ACUVE AF FIOSIAIII I UTAL.	1.1.20.121	1.007.100	

DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016 INSTALLATION INDEX

INSTALLATION	COMMAND	STATE/COUNTRY	PAGE
AGADEZ	USAFE	NIGER	194
AL MUSANNAH	ACC	OMAN	198
ALTUS	AETC	OKLAHOMA	129
CANNON	AFSOC	NEW MEXICO	111
CAPE CANAVERAL	AFSPC	FLORIDA	58
DAVIS MONTHAN	ACC	ARIZONA	31
EGLIN	AFMC	FLORIDA	62
EIELSON	PACAF	ALASKA	23
ELLSWORTH	ACC	SOUTH DAKOTA	143
FE WARREN	AFGSC	WYOMING	165
FT MEADE	USAIMC	MARYLAND	79
HILL	AFMC	UTAH	155
HOLLOMAN	ACC	NEW MEXICO	116
HURLBURT FIELD	AFSOC	FLORIDA	66
JBPH HICKAM	ACC	HAWAII	70
JBSA - LACKLAND	AETC	TEXAS	147
JRM - ANDERSEN	PACAF	GUAM	173
KIRTLAND	AFMC	NEW MEXICO	120
LUKE	AETC	ARIZONA	38
MALMSTROM	AFGSC	MONTANA	90
MCCONNELL	AMC	KANSAS	75
NELLIS	ACC	NEVADA	99
OFFUTT	ACC	NEBRASKA	95
RAF CROUGHTON	USAFE	UNITED KINGDOM	202
SEYMOUR JOHNSON	ACC	NORTH CAROLINA	125
THULE	AFSPC	GREENLAND	169
TINKER	AFMC	OKLAHOMA	136
U.S. AIR FORCE ACADEMY	USAFA	COLORADO	53
WHITEMAN	AFGSC	MISSOURI	85
УОКОТА	PACAF	JAPAN	190

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DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016 SPECIAL PROGRAM CONSIDERATIONS

ECONOMIC CONSIDERATIONS

An economic evaluation has been accomplished for all projects costing over \$2 million where more than one possible option could be identified. 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 2015 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 manage 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 2016 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. REAL PROPERTY ADMINISTRATION

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

4. METRIC CONVERSION

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

DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016 NON-MILCON FUNDING

Research and Development (RDT&E) NONE

DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016 APPROPRIATION SOUGHT FOR PREVIOUSLY AUTHORIZED PROJECTS

APPROPRIATION SOUGHT FOR FY15 AUTHORIZATION

In the FY2016 President's Budget, the Department is requesting appropriation in the amount of \$34.4 million for the Guam Joint Region Marianas PAR Low Observable/ Corrosion Control/Composite Repair Shop, which was fully authorized in the National Defense Authorization Act for Fiscal Year 2015 (H.R. 3379). The Consolidated and Further Continuing Appropriations Act, 2015 (H.R. 83) did not appropriate funds for this project. The project justification DD Form 1391 for this project is provided on the next page.

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA				2. DATE		
AIR FORCE		((computer ger	erate	d)		
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE JRM ANDERSEN PAR LOW OBSERVABLE/CORROSIC ANDERSEN AF BASE SITE # 1 CONTROL/COMPOSITE REPAIR SI					E BLE/CORROSION FE REPAIR SHO	ı D.Đ	
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT	COST (\$000)
27576		211-159	1366/2	AJJY13	3028	AUTH: 0 A	APPN: 34,400
		9.	COST ESTIM	TES			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILIT	LES	OT COMPOSITE DEDIT		CM	2 280	9 6 9 9	22,626
SUSTAINABILITY	AND	ENERGY MEASURES	K FAC		2,205	3,003	(448)
SUPPORTING FACIL	LITIES						8,219
UTTLITTES				LS			(2,769)
SITE IMPROVEME	NTS			LS			(1,886)
PAVEMENTS				LS			(627)
COMMUNICATIONS				LS			(33)
INJECTION WELL	s			LS			(215)
EXPLOSIVE SAFE	TY SUE	MISSION COMPLIANCE		LS			(890)
CARGO DEPLOYME	NT FAC	CILITY RENOVATION		SM	1,216	1,115	(1,356)
ENVIRONMENTAL	REMEDI	LATION		LS			(150)
ARCHEOLOGICAL	MONITO	DRING		LS			(87)
DEMOLITION				SM	1,337	154	(206)
SUBTOTAL							30,845
CONTINGENCY (5.0%)						1,542	
TOTAL CONTRACT (COST						32,387
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.2%)				2,008
TOTAL REQUEST						34,395	
TOTAL REQUEST (F	ROUNDE	:D)					34,400
EQUIPMENT FROM (THER	APPROPRIATIONS (NON	I-ADD)				(250.0)
10. Description of Proposed Construction: Construct the facility 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 project includes demolition of three buildings (1,337 SM). The fire suppression system will consist of fire sprinkler and foam systems, foam pump system, and fire foam holding tanks. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. The project will include electrical, mechanical, water, communication, fire suppression/detection, air conditioning system with humidity environmental controls, utilities, pavements, parking, an oil water separator, associated site improvements, archeological monitoring and all necessary supporting facilities for a complete and usable facility. This project includes the renovation of an existing building to relocate the Cargo Deployment Facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

DD FORM 1391, DEC 99

1. COMPONENT		FY 2016 MIL	ITARY CONSTRU	JCTION PROJECT DA	TA	2. DATE
AIR FORCE	CE (computer generated)					
3. INSTALLATION	, SITI	E AND LOCATION		4. PROJECT TITLE	2	
JRM ANDERSEN				PAR LOW OBSERVAR	BLE/CORROSION	
ANDERSEN AF BAS	E SIT	E # 1		CONTROL/COMPOSIT	TE REPAIR SHOP	
GUAM						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CO	OST (\$000)
27576		211-159	1366/.	AJJY133028	AUTH: 0 APE	?N: 34,400
Air Conditioni	ng:	245 Tons				
11. Requiremen	t: 22	89 SM Adequate	e: SM S	ubstandard: 527	SM	
PROJECT: Cons	truct	a low observable	e/ corrosio	n control/ comp	osite repair	shop.
(New Mission)						
REQUIREMENT:	For t	his Pacific Airpo	ower Resili	ency (PAR) proj	ect, an adequ	uately
sized and conf	igure	d shop is require	ed to provi	de environmenta	lly controlle	ed areas
for on-aircraf	t Low	Observable rest	oration and	repair in supp	ort of the PA	AR
mission. The s	hop i	s required to sup	pport a Con	tinuous Bomber	Presence (CBI	P), Tanker
Task Force (TT	F), G	lobal Hawk, and t	the Theater	Security Packa	ges (TSP). F	ighter
aircraft requi	re en	vironmentally con	ntrolled ar	eas for on-airc	raft LO resto	oration
and repair. A	singl	e bay and worksho	op support	areas for prepa	ration and cu	ire are
required to su	pport	LO maintenance.	The facili	ty is required	to provide an	n • <i>,</i>
environmentall	y con irina	crolled area for	corrosion/	composite trea	ting, corros:	lon/
facility is re-	mire	d to provide fund	y, and repa	a for a corrogi	on control sh	non to
include prepar	ation	and drving areas	s. abrasive	blasting rooms	, paint booth	ns for
mixing and or	apply	ing paint, tool a	storage, lo	ckers, and admi	nistrative su	apport
functions.		5100,000				
CURRENT SITUAT	ION:	Corrosion contro	ol and comp	osite repair ca	pability is d	currently
limited to one	smal	l facility. Ander	rsen facili	ties can suppor	t only minor	_
protective coa	ting	repair capability	y for a sma	ll contingent c	of aircraft w:	ith a
minimal flying	sche	dule. Andersen de	oes not hav	e the extensive	e maintenance	
infrastructure	requ	ired to support a	a home stat	ion Global Hawk	capability a	along with
a CBP, TTF, TS	P, an	d aerospace grou	nd equipmen	t (AGE). Repair	of aircraft	
components alo	ng so	heduled isochrona	al and corr	osion inspectio	ons/maintenand	ce
necessitates n	ew fa	cilities for corr	rosion cont	rol. The existi	ng Cargo Dep.	loyment
Facility (CDF)	15 1 	m the rootprint (bi the new	racility, and w	CDF	ated to an
	1 L Y ,	which will be iel		accommodate the		
IMPACT IF NOT	PROVI	DED: Without the	is facility	, Andersen will	be unable to	o provide
Continuous Bom	adequate iow observable, corrosion control, and composite repairs to support a					r Security
Packages (TSP)	. Lac	k of this facilit	tv would si	gnificantly red	luce readines:	s, and
could result i	could result in degradation of operational capability, and may increase potential					
for a serious	misha	-	-	• *		
ADDITIONAL: T	his r	project meets the	criteria/	scope specified	l in Air Force	e Handbook
32-1084, Facil	ity F	Requirements, F-2	2 Facilitie	s Requirements	Plan Revision	n W, 2008,
and PACAF Logi	stics	Facilities Plan	ning Guide.	This project	was authorize	ed in the
2015 National	Defer	se Authorization	Act; there	fore this proje	ect only seeks	s the
appropriation	to fu	and this project.	Prelimina	ry analysis of	reasonable o	ptions for
satisfying thi	s req	uirement indicat	ed only one	option will me	et mission no	eeds, new
construction.	There	fore, an economi	c analysis	certificate of	exemption has	s been
completed. Sus	taina	ble principles,	to include	life cycle cost	effective p	ractices,
will be integr	ated	into the design,	aevelopmen	t, and construct	tion of the p	project in
7101 Jour Ob-	11 UFC	1 - 200 - 02, dated	I March 20	IS. Base Civil	. Engineer: ()	0/1) 300- 24 6/2
1101. LOW UDSe	r vaDl	e, corroston con	cror/ compo	sile Kepair Sho		27,043
DD FORM 1391, 1	DEC 9	9 Previo	ous editions	s are obsolete.	P	age No.

1. COMPONENT AIR FORCE	FY 201	2. DATE			
3. INSTALLATION, JRM ANDERSEN ANDERSEN AF BASH GUAM	, SITE AND LOCATION E SITE # 1	N	4. PROJECT TITLE PAR LOW OBSERVABLE/CORROSION CONTROL/COMPOSITE REPAIR SHOP		
5. PROGRAM ELEMP	AM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT C)ST (\$000)	
27576	6 211-159 1366/AJJY133028 AUTH: 0 AP			PN: 34,400	
SF; Cargo Deployment Facility: 1,216 SM = 13,089 SF. JOINT USE CERTIFICATION: This facility can be used by other components on "as available" basis; however, scope is based on AF requirements.					

1. COMPONENT AIR FORCE		FY 2016 MILITA	RY C	ONSTRUC	TION PRC	JECT	DATA	2. DATE
			-		4 5501			
JRM ANDERSEN ANDERSEN AF B GUAM	ASE SITE	2 # 1			PAR LOW	V OBSI	ERVABLE/CORROS POSITE REPAIR	SION SHOP
5. PROGRAM EL	EMENT	6. CATEGORY C	ODE	7. PRO	JECT NUM	IBER	8. PROJECT CC	OST (\$000)
27576		211-159		1366/	AJJY133	028	AUTH: 0 API	PN: 34,400
12. SUPPLEMEN	TAL DAT	A:						
a. Estimate	d Design	n Data:						
(1) Statu	ls:							4.4
(a) Da	te Desig	gn Started			-		11	-JUL-11
(b) Pa	rametric	Cost Estimate	s use	ed to de	evelop c	osts		YES
* (C) Pe	ercent Co	omplete as of 0	1 JAN	1 2015				100%
* (d) Da	te 35% I	Designed					30	-MAR-12
(e) Da	te Desig	gn Complete	_				28	-SEP-12
(f) Er	ergy Stu	udy/Life-Cycle a	analy	ysis was	s/will b	e per	formed	YES
(2) Basis	:							
(a) St	andard o	or Definitive De	esigr	1 -				NO
(b) Wh	ere Desi	ign Was Most Re	centl	ly Used	-			
(3) Total	. Cost (d	c) = (a) + (b) d	or (d	l) + (e)):			(\$000)
(a) Pr	oduction	n of Plans and	Speci	ficatio	ons			2,064
(b) Al	1 Other	Design Costs	-					1,032
(c) To	tal	-						3,096
(d) Co	ntract							2,580
(e) In	-house							516
(4) Const	ruction	Contract Award						16 FEB
(5) Const	ruction	Start						16 MAR
(6) Const	ruction	Completion						18 MAR
* Indicat which i cost an	es compl s compan d execut	letion of Project rable to tradit cability.	ct De ional	efinitio L 35% de	on with esign to	Param ensu	etric Cost Es re valid scop	timate e,
b. Equipmer	nt associ	iated with this	pro	ject pro	ovided f	rom c	ther appropri	ations:
EQUIPMEN	I NOMENC	LATURE	P API	ROCURIN	G FION	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED	COST (\$000)
COMMUNIC	ATIONS E	QUIPMENT		3400		2	017	50
FURNISHI	NGS AND	EQUIPMENT		3400		2	017	200

DEPARTMENT OF THE AIR FORCE MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016 APPROPRIATIONS LANGUAGE

FY2016 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 \$1,389,185 to remain available until September 30, 2020: <u>Provided</u> that, of this amount, not to exceed \$89,164,000 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		F	Y 2016 N	IILITARY	CONSTR	UCTION I	PROGRA	M	2. DATE	
AIR FORCE										
3. INSTALLATION	AND LOC	ATION:		4. COM	MAND:			5. AREA	CONST	
EIELSON AIR FOR	CE BASE			PACIFIC	AIR FOR	CES		COST IN	DEX	
ALASKA								2.22		
6. Personnel	PEF	RMANEN	Г	STL	JDENTS		SUF	PORTED)	
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	172	1707	404							2,283
END OF FY 2019	173	1705	390							2,268
7. INVENTORY DA	TA (\$000)									
a. Total Acreage:	19,789									
b. Inventory Total as	s of : (30	Sep 14)								3,278,667
c. Authorization Not	Yet in Inv	entory:								58,860
d. Authorization Red	auested in	this Prod	ram: (FY)	2016)						71,400
e. Planned in Next I	Four Year	Program:		,						124,000
f. Remaining Deficie	encv:									218,900
g Grand Total	5110 91								-	3 751 827
g. Orana rotan										0,101,021
8. PROJECTS REC	UESTED	IN THIS I	PROGRA	M:		(FY 2016)			
CATEGORY							,	COST	DESIGN	STATUS
CODE	PROJEC	T TITLE				SCOPE		\$.000	START	CMPL
171-212	E-35A Fli	<u>nht Sim/A</u>	lter Squa	d Ons/AM	LI Facility	3 160	SM	37 000	May-14	Sep-15
821-117	Ror Centi	al Heat &	Power P	lant Boile	r Ph3	120,000	IR	34 400	Design/Br	uild
021 117		arricata	1 OWCI I	ant Dono	1110	ΤΟΤΔΙ		71 400		
						TOTAL		11,400		
9a Euture Projects:	Typical F	Planned N	ext Four	Years:						
	rypiouri	annoan		rouro.						
141-181	ADAL A-1	0 Shelter	s/Three E	Extensions	5	4.166	SM	13.000		
141-181	Upgrade	Aggresso	r Shelters	3		9,485	SM	10,000		
141-181	Aircraft S	helters/Ha	angars			3,588	SM	48.000		
141-753	Renovate	Anaress	or Squad	Ons		186	SM	2 000		
171-618	ADAL Fie	ld Trainin	a Detach	ment Faci	lity	1 598	SM	8 000		
171-623	Weapons	Load Tra	inina		iity	1 545	SM	2 000		
211-111	Add to Co	prosion C	ontrol Ha	ngar		9 290	SM	5,000		
211-111		Phase Sh	011101110	ingai		a 200	SM	2 000		
211-111	Ungrado		up Hangar			1 213	SM	2,000		
211-117	Engine St	torado Ea	cility			/18	SM	2,000		
211-107	Munitions		onity combly/Tr	octing		607	SM	3 000		
212-212			Anintonan	co Boy		1 570	SM	1 000		
214-420			,	ice bay		1,579		1,000		
210-712	Houmon I	aloog	/			1 200		22,000		
422-204	Паушант	giuus					SIVI	124,000	•	
						TOTAL		124,000		
0h Pool Property M	laintonand	o Backlay	a Thie Ine	tallation: ((¢N/I)					176
30. Real Floperty iv	r Eupotion	e Dackiu		ama ta th	ψινι) > 25 4th Εί	abtor Min	a Ito mio	nion in to t	roin doliv	
10. MISSION OF Majo			AFD IS III		304111 FIQ	griter vvirig	y. Its mis: oir fomili		r infrontrug	turovitio
and support combat	power aci	the on E 1		e taking ca	are or our	people, in		es and ou		
10 topont units to in	s group wi	unan F-i skolo Air N	o squau	On, and in	h Air Dofi	e, missior	support	and medi	cal groups	, as well as
10 tenant units, to in 11 Outstanding Pol	lution and	Sha S All I Sofoty ((ficionaiae)			y.			
a Air Pollution		Salety (C		nciencies)				0		
								0		
h Water Pollution										
c Occupational	Safety an	d Health						0		
	Jaiety all	GINEAILII						0		
d Other Enviror	nmental							Ω		
								0		

DD Form 1390, 9 Jul 02

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE		((computer gen	erate	d)				
3. INSTALLATION	, SIT	E AND LOCATION		4. PF	OJECT TITL	Ξ			
EIELSON AIR FOR	CE BA	SE		F-35A	FLIGHT SI	4 /ADAL SQD OF	?S/AMU		
EIELSON SITE #	1								
ALASKA									
5. PROGRAM ELEM	ENT	T 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000)							
27142		171-212	1703/8	TQW16	3011	3	7,000		
		9.	COST ESTIMA	TES					
				TT /M	OUNTERV	UNIT	COST		
		ITEM		0/M	QUANTITY		(\$000)		
PRIMARY FACILITIES 28,367									
FLIGHT SIMULAT	OR FAC	CILITY (171-212)		SM	3,010	7,886	(23,737)		
ADD SQD OPS/AM	J (141	L-753)		SM	187	6,460	(1,208)		
ALTER SQD OPS/2	AMU (1	L41-753)		SM	2,448	1,194	(2,923)		
SUSTAINABLE & 1	ENERGY	MEASURES		LS			(499)		
SUPPORTING FACII	ITIES	b					5,025		
UTILITIES				LS			(2,500)		
PAVEMENTS				LS			(500)		
SITE PREP/SITE IMPROVEMENTS LS									
COMMUNICATIONS				(750)					
ENVIRONMENTAL 1	REMEDI	IATION		LS			(75)		
SUBTOTAL							33,392		
CONTINGENCY	(5	5.0%)					1,670		
TOTAL CONTRACT C	COST						35,061		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				2,279		
TOTAL REQUEST						-	37,340		
TOTAL REQUEST (F	ROUNDE	:D)					37,000		
EQUIPMENT FROM C	THER	APPROPRIATIONS (NON	I-ADD)				(90,250.0)		
10. Descripti	on of	Proposed Constru	uction: Con	nstru	ct Flight	Simulator fa	acility		
with reinforce	d cor	crete foundation	meeting Ala	aska	seismic ar	d frost heav	ving		
requirements,	struc	tural steel frame	e with insul	Lated	metal ski	n, and stand	ding seam		
metal roof. In	clude	s six simulator b	pays, traini	ing c	lassrooms,	secure worl	k areas,		
fire suppressi	on/de	tection, pavement	s, parking	site	improveme	ents, utilido	or duct		
tie-ins, conta	minat	ed soil remediati	ion and all	nece	ssary supp	orting faci	lities for		
a complete and	usea	Die facility. Add	2 to and alt	er S	quadron Op	erations/All	rcrait		
Access Program	Faci	lity (SAPF), usir	g economica	al de	sign and c	onstruction	methods to		
accommodate th	e mis	sion of the facil	lities. The	ese f	acilities	will be des:	igned as		
permanent cons	truct	ion in accordance	e with DoD,	Unif	ied Facili	ty Criteria	(UFC) 1-		
200-01 and wil	l com	uply with DoD anti	iterrorism/f	Eorce	protectio	on requirement	nts per UFC		
4-101-01 and J	FAN 6	5/9 Physical Secur	rity Standar	ds f	or SAPF co	onstruction.			
Air Conditioning: 105 Tons									
11. Requirement: 3010 SM Adequate: 0 SM Substandard: 0 SM									
PROJECT: Cons	truct	: a F-35A flight a	simulator fa	acili	ty and add	l to/alter a	F-35A		
Squadron Opera	tions	and AMU Facility	y (New Miss	ion)					

REQUIREMENT: Eielson AFB is the preferred alternative to be the second Main Operating Base (MOB) for the F-35A aircraft. An adequately sized and configured flight simulator facility is required to support the beddown of F-35A aircraft.

DD FORM 1391, DEC 99

1. COMPONENT	FY 2016 MIL:	ITARY CONSTRU	ICTION PROJECT DA	ATA	2. DATE	
AIR FORCE		(computer ger	nerated)			
3. INSTALLATION,	SITE AND LOCATION		4. PROJECT TITL	E		
EIELSON AIR FORCE BASE F-35A FLIGHT SIM /ADAL SQD OPS/AMU EIELSON SITE # 1 ALASKA						
5. PROGRAM ELEME	NT 6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CO	OST (\$000)	
27142	171-212	1703/1	FTQW163011	37	,000	
The Simulator T the aircraft in classrooms, six locker and rest simulator train addition/altera 35A aircraft at Air Force, Army controlled beni degrees Celsius System (ALIS) e CURRENT SITUATI simulator facil Training. Such accompanying th simulator facil purposes. A fo operations but requirement. E F-35A simulator simulator train in the third qu IMPACT IF NOT P training to ass facilities. How not able to dep highly sensitiv will not be abl addition/altera protection of S or the ALIS.	combat. The F-35A so simulator bays, brid room space, offices a ing. Also, to provid tion to building 4110 Eielson. The SAPF s , and Navy (JAFAN 6/S gn environment that r and the humidity be quipment operating 24 ON: Eielson AFB (EA) ity on base that meet a facility is require e arrival of F-35A as ity is too small and rmer squadron operats an addition to the fac ielson does not have training and the ALS ing of pilots accompa arter of FY19. ROVIDED: The 354 FW igned aircrews. They ever, without aircrew loy if necessary. The e information associa e to beddown the F-33 tion to provide requi-	nouse fact quadron(s) : ef/debriefin and storage de an adequa to support shall provide p) provision maintains the tween 40% and 4 hours a da FB), AK does to support ircraft stat will be use incraft stat as SAPF on 1 IS. A new : anying the a will not b must trave w certifica here will b ated with to SA aircraft ired securi m information	requires space ng rooms, a cla space for F352 ately sized and t beddown of th de physical sec ns. The SAPF s he room tempera nd 70% with the ay. s not currently irements for th rt simulator th rting in FY19/3 ed for Field Th cility can be a required to sup base that meets facility is rec arrival of 48 H e able to prov: 1 to CONUS site tion, the crews e insufficient he F-35 ALIS sy without the So ty and accredit on pertaining the	for an audito assified served apilot flight d configured 3 are 1st squadre curity that me shall provide ature between a Autonomic Lo y have a fligh he F-35A Simu: raining of pi 3. An existin raining Detack altered to sup oport the SAPI s the required fuired to prov 5-35 aircraft ide F-35A simu es that have a s could be great facility secury ystem. The 3 quad Ops/AMU ted area for a to the F-35A simular	to use prium, er room, t SAPF by on of F- eets Joint a 15 and 29 pgistics ht lator lots hg hment pport F-35 F ment for vide the starting ulation training punded and urity for 54th FW the aircraft	

ADDITIONAL: This project meets applicable criteria/scope specified in AF Manual 32-1084, "Facility Requirements" and the F-35A Facility Requirements Documents. All known alternate 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. A certificate of exception has been prepared. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: DSN 317 377-5213. Flight Simulator Facility 3010 SM = 32,387 SF; Alter Sqd Ops/AMU Facility 2448 SM = 26,340 SF; Add Sqd Ops/AMU facility 187 SM = 2012 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 2016 MILITARY	CONSTRUC	TION PROJECT	DATA	2. DATE	
2 73/200102		000mp(John John				
3. INSTALLATI	ON AND I	OCATION		4. PROJECT	TITLE		
EIELSON AIR F EIELSON SITE ALASKA	ORCE BAS	SE		F-35A FLIGH	T SIM /ADAL SÇ	D OPS/AMU	
5. PROGRAM EL	EMENT	6. CATEGORY COD	E 7. PRC	JECT NUMBER	8. PROJECT CC)ST (\$000)	
27142		171-212	1703,	/FTQW163011	37,	000	
12. SUPPLEMEN	TAL DAT	A:					
a. Estimate	d Design	n Data:					
(1) Statu	IS:						
(a) Da	te Desig	n Started		. .	30	-SEP-14	
(b) Pa	rametrio	Cost Estimates u	sed to d	evelop costs		YES	
* (C) Pe	ercent Co	ompiete as of Ui J	AN 2015			15%	
* (d) Da	te 35% I	Designed			31	-MAR-15	
(e) Da	te Desig	n Complete	1	- /	30	-SEP-15	
	lergy Sti	ady/Life-Cycle ana	lysis wa	s/will be per	rormed	YES	
(2) Basis	:						
(a) St	andard o	or Definitive Desi	.gn –			NO	
(b) Wh	ere Des:	ign Was Most Recen	tly Used	-			
(3) Total	. Cost (d	(a) = (a) + (b) or	(d) + (e):		(\$000)	
(a) Pr	oduction	n of Plans and Spe	cificati	ons		2,220	
(b) Al	.1 Other	Design Costs				1,110	
(c) To	tal	-				3,330	
(d) Co	ntract					2,775	
(e) In	-house					555	
(4) Const	ruction	Contract Award				16 FEB	
(5) Const	ruction	Start				16 MAR	
(6) Const	ruction	Completion				19 JUN	
* Indicat which i cost an	es compi s compan d execut	letion of Project rable to tradition rability.	Definiti al 35% d	on with Param esign to ensu	netric Cost Es ure valid scop	timate e,	
b. Equipmen	nt assoc:	iated with this pr	oject pr	ovided from c	other appropri	ations:	
EQUIPMEN	I NOMENC	LATURE A	PROCURIN PPROPRIA	FISCA IG APPRO FION OR RE	AL YEAR DPRIATED QUESTED	COST (\$000)	
4 SIMULA	TORS		3010	2	2015	60,000	
2 SIMULA	TORS		3010	2	2016	30,000	
COMMUNIC	ATIONS E	QUIPMENT	3400	2	2018	150	
FURNISHI	NGS		3400	2	2018	100	

TI ZOTO MILITARI CONSTRUCTI	FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE (computer genera	ated	1)							
3. INSTALLATION, SITE AND LOCATION 4.	. PR	OJECT TITLE		1					
EIELSON AIR FORCE BASE	EPAI	R CENTRAL H	EAT AND POWER	PLANT BOILER					
EIELSON SITE # 1 PH	нз								
5. PROGRAM ELEMENT 6 CATECORY CODE 7. RPSUID/PRC	OTEC	T NIMBER	8. PROTECT C	OST (\$000)					
	.0010		0. 1800201 0	(\$000)					
27576 821-117 1703/FT	rqw1	33001	34	4,400					
9. COST ESTIMATES	s								
ITEM	г/м	OUANTITY	UNIT	COST					
	.,	20-11-1		(\$000)					
PRIMARY FACILITIES				26,474					
STRUCTURAL RENOVATIONS (821-117)	SM	400	1,176	(470)					
BOILER CONSTRUCTION	lb	120,000	204	(24,480)					
FLUE CONSTRUCTION	LS			(23)					
CONTROLS	LS			(187)					
START-UP COMMISSIONING AND RELATED ACTIVITIES	LS			(449)					
ELECTRICAL	LS			(278)					
SUSTAINMENT AND ENERGY MEASURES	LS			(587)					
SUPPORTING FACILITIES				3,206					
DEMOLITION OF INTERIOR STRUCTURES	LS			(609)					
SITE PREPARATION	LS			(50)					
SITE IMPROVEMENTS	LS			(113)					
MODIFICATIONS OF EXISTING FACILITIES	ls			(167)					
ENVIRONMENTAL REMEDIATION	LS			(1,577)					
RAIL SPUR	LM	300	2,300	(690)					
SUBTOTAL				29,680					
CONTINGENCY (5.0%)				1,484					
TOTAL CONTRACT COST				31,164					
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				2,026					
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				1,187					
TOTAL REQUEST				34,377					
TOTAL REQUEST (ROUNDED)				34,400					
10. Description of Proposed Construction: Repai	ir 1	by replaci	ng boiler #4	with a					
new 120,000 pound per hour (lb/hr) boiler. The p	pro	ject inclu	des, but is	not					
limited to: demolition of existing boiler #4; provide new 120,000 lb/hr spread									
stoker coal fired steam boiler and all auxiliary	stoker coal fired steam boiler and all auxiliary equipment to support boiler								
operation to include, but not limited to: coal fe	eed	; asn nand	ling, conden	sate					
combustion air and forced draft fans: boiler flue	uni j Le ora	as; induce	d draft fans	and					

operation to include, but not limited to: coal feed; ash handling, condensate handling; deaerator and boiler feedwater; mud drum pre-heat; soot blowers; boiler combustion air and forced draft fans; boiler flue gas; induced draft fans and stacks; as well as extensions of the plant control; electrical; glycol and steam systems; and installation of emission control equipment to make system fully operational. This project will provide new environmental control elements as part of the boiler package, including a selective catalytic reduction system (utilizing aqueous ammonia used to control nitrogen oxide and dry flue gas desulfurization used to control sulfur dioxide) and a continuous emission monitoring system. A new rail spur of approximately 1000ft will be provided to accommodate storage and offloading of ammonia and other chemicals required for the new environmental control systems. Project will utilize economical design and construction methods to

DD FORM 1391, DEC 99

Previous editions are obsolete.

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	JCTION PROJECT DAT	ГА	2. DATE		
AIR FORCE		(c	omputer gen	nerated)				
3. INSTALLATION EIELSON AIR FOR EIELSON SITE # ALASKA	, SITE CE BAS 1	AND LOCATION		4. PROJECT TITLE REPAIR CENTRAL H PH 3	EAT AND POWER	PLANT BOILER		
5. PROGRAM ELEM	ENT	6 CATEGORY CODE	7. RPSUTD	PROJECT NUMBER	8. PROJECT C	OST (\$000)		
		CATEGORI CODE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			022 (4000)		
27576		821-117	1703	/FTQW133001	34	1,400		
accommodate the mission of the facility to include demolition of the existing boiler. 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. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC 1-200-01 and UFC 1-200- 02). The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Project shall meet all federal & state environmental regulations, including emissions discharge limits and disposal. This project will comply with DoD antiterrorism/force protection requirements per UEC 4-010-01								
11 Demoissen	+ CO			a -h =+ 1 1	R00000 TR			
II. Requirement <u>PROJECT:</u> Repart <u>REQUIREMENT:</u> continuous sup derated to 100 It must be rep and temperatur for the instal Part 60, AFI 3 State of Alask Engineers Boil <u>CURRENT SITUAT</u> level of regul significantly to be derated failures are n heat. The ash exposure to hi year. Maintena production com replacement mu	11. Requirement: 600000 LB Adequate: 0 LB Substandard: 720000 LB <u>PROJECT:</u> Repair Central Heat and Power Plant Boiler PH 3. (Current Mission) <u>REQUIREMENT:</u> Reliable steam production is vital to ensure the base has a continuous supply of heat and electricity for base facilities. Boiler #4, currently derated to 100,000 lb/hr, is at the end of its service life and must be replaced. It must be replaced with a 120,000 lb/hr unit operating at the same steam pressure and temperature as the existing boiler. The project fits the long-term energy plan for the installation for reliability and redundancy. Project must meet EPA 40 CFR Part 60, AFI 32-1084, requirements of the current Eielson CHPP air permit with the State of Alaska, and applicable sections of the American Society of Mechanical Engineers Boiler & Pressure Vessel Code. <u>CURRENT SITUATION:</u> Boiler #4, installed in 1951, has deteriorated well beyond the level of regular maintenance. Insulation and refractory brick have deteriorated significantly resulting in "hot spots" (weak spots) on the boiler casing forcing it to be derated to 100,000 lb/hr or 83% of its original capacity. Boiler tube failures are now common due to corrosion, erosion and long term exposure to high heat. The ash handling system has become unreliable due to age, wear and long term exposure to high heat. We have had three ash conveyor belt failures in the last year. Maintenance costs have skyrocketed due to the difficulty of obtaining out-of-							
months until the parts arrive. <u>IMPACT IF NOT PROVIDED</u> : Failure of boiler #4 is imminent. A critical failure of one boiler could result in days of lost heat and electrical generation. Due to the difficulty in acquiring spare parts, this will severely degrade Eielson's ability to provide heat and electrical power to facilities required to support Eielson's flying mission. During typical operations, Eielson's CH&PP provides all electrical power and steam heat for the base. Loss of heat and power during Eielson's sub- arctic winters, with temperatures as low as 65 degrees F below zero, would be devastating to facilities and the missions housed by them within hours. If the situation were deemed critical enough, the base would be forced to consider evacuating facilities due to a lack of heat and power. Once closed, the facilities would freeze and require many millions of dollars of repair to return to usable condition. Completing the planned replacement of all boilers will guarantee continued steam and power generation to support the flying mission.								
דססש חח די	DEC 9	9 Previou	s edition	s are obsolete.	Ŧ	Page No		

1. COMPONENT	FY 2016 MILI:	FY 2016 MILITARY CONSTRUCTION PROJECT DATA					
AIR FORCE	()						
3. INSTALLATION	, SITE AND LOCATION		4. PROJECT TITLE				
EIELSON AIR FOR	CE BASE	REPAIR CENTRAL H	EAT AND POWER	PLANT BOILER			
EIELSON SITE #	1		РН 3				
ALASKA							
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)		

1703/FTQW133001

821-117

ADDITIONAL: This project represents the third of a five phase initiative to replace six 50-year old boilers at Eielson's CH&PP with five new boilers over several years. 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 exemption has been prepared. There is no criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". However, this project does meet the criteria/scope specified in MIL HNEK 1190 as required by AF Manual 32-1084. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. BASE CIVIL ENGINEER: (907)377-5213. Structural Renovations: 400 SM = 4304 SF.

JOINT USE CERTIFICATION: This is an installation utility/infrastructure project, and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.

27576

34,400

1. COMPONENT		FY 2016 MILITARY C	ONSTR	UCTION PROJECT	DATA	2. DATE
AIR FORCE		(Comput)	er ge	herated)		
3. INSTALLATI	ON AND L	OCATION		4. PROJECT TI	TLE 	
EIELSON AIR F	ORCE BAS # 1	SE		REPAIR CENTRA	L HEAT AND PO	VER PLANT
ALASKA	" -					
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CO)ST (\$000)
27576		821-117	170	3/FTQW133001	34,	400
12. SUPPLEMEN	TAL DAT	A:				
a. Estimate	d Design	n Data:				
(1) Proje	t 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 Recent	n - ly Use	ed -		NO
(3) All O	ther Des	ign Costs				1,520
(4) Const	ruction	Contract Award				16 FEB
(5) Const	ruction	Start				16 MAR
(6) Const	ruction	Completion				18 JUN
(7) Energ	y Study/	Life-Cycle analysis	was/	will be perfor	med	YES

1. COMPONENT AIR FORCE		F	Y 2016 M	IILITARY	CONSTR	UCTION F	PROGRA	М	2. DATE	
3. INSTALLATION A	AND LOC	ATION:		4. COM	/AND:			5. AREA	CONST	
DAVIS-MONTHAN A	AIR FORC	E BASE		AIR COM	AIR COMBAT COMMAND					
ARIZONA								1.01		
6. Personnel	PEF	RMANENT		STL	IDENTS		SUF	PORTED)	
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	700	4937	843	58	78	0	29	373	704	7,722
END OF FY 2019	700	4937	843	58	78	0	29	373	704	7,722
7. INVENTORY DA	TA (\$000)									
a. Total Acreage:	10,668									
b. Inventory Total as	s of: (30	Sep 14)								1,632,092
c. Authorization Not	t Yet in Inv	/entory:								67,122
d. Authorization Red	quested ir	this Prog	ram: (FY	2016)						16,900
e. Planned in Next F	Four Year	Program:								0
f. Remaining Deficie	ency:									130,100
g. Grand Total:										1,846,214
8. PROJECTS REQ	UESTED	IN THIS F	PROGRA	M:		(FY 2016)			
CATEGORY								COST	DESIGN	STATUS
CODE	PROJEC	<u>T TITLE</u>				<u>SCOPE</u>		\$,000	<u>START</u>	CMPL
218-712	HC-130J	AGE Cov	ered Stor	age		1,123	SM	4,700	Design/B	uild
211-159	HC-130J	Wash Ra	ck			2,020	SM	12,200	Design/B	uild
						TOTAL		16,900	-	
9a. Future Projects:	: Typical I	Planned N	lext Four	Years:						
	NONE					TOTAL		0		
9b. Real Property N	laintenand	ce Backlo	g This Ins	stallation:	(\$M)					186
10. Mission or Majo	r Functior	is: Headqi	uarters 12	2th Air Foi	rce; a wing	g with two	fighter tra	aining squ	adrons re	sponsible for
training all A/OA-10	aircrews;	one A/OA	-10 fighte	er squadro	n, two EC	-130 elec	tronic cor	nbat squa	drons, Co	mbat
Search and Rescue,	, a tactical	air contro	ol wing; a	n Air Forc	e Reserve	e HH-60 re	escue squ	ladron; ar	nd Air Forc	e Material
Command's Aerospa	ace Maint	enance ar	nd Regen	eration Ce	enter.					
Outstanding Pol	llution and	Safety (C	SHA De	ficiencies)	:					
a. Air Pollution								0		
 b. Water Pollution 	on							0		
c. Occupational Safety and Health 0										
								_		
d. Other Enviror	nmental							0		

DD Form 1390, 9 Jul 02

1. COMPONENT		FY 2016 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		
DAVIS-MONTHAN A	IR FOF	CE BASE		HC-13	0J WASH RAC	2K		
DAVIS MONTHAN A	FB SII	re # 1						
ARIZONA		c						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	COST (\$000)					
27224		211-159	1650/	FBNV1	13005		12,200	
		9. C	OST ESTIMA	TES				
		ТТТ		TT /M	OUANTTTY	UNIT	COST	
				07M	QUANIIII		(\$000)	
PRIMARY FACILIT	IES						6,727	
HC-130J WASH R	ack, o	PEN-AIR (211-159)		SM	2,020	2,669	(5,392)	
WASH RACK EQUI	PMENT/	TOOL SHOP (211-161)		SM	461	2,603	(1,200)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(135)	
SUPPORTING FACIL	LITIES			1			3,907	
UTILITIES				LS			(771)	
SITE IMPROVEME	NTS			LS			(133)	
PAVEMENTS				LS			(2,720)	
COMMUNICATIONS	SUPPO	RT		LS			(80)	
PASSIVE FORCE	PROTEC	TION		LS			(28)	
FALL PROTECTION	N AND	ARREST SYSTEM		LS			(75)	
HAZARDOUS WAST	E CONT	AINMENT SYSTEMS		LS			(100)	
SUBTOTAL							10,634	
CONTINGENCY	(5.0%))					532	
TOTAL CONTRACT (COST						11,165	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				636	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF 5	SUBTOTAL)				425	
TOTAL REQUEST							12,227	
TOTAL REQUEST (1	ROUNDE	D)					12,200	
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				40	
10. Descripti	on of	Proposed Construc	ction: Con	nstru	ct a HC-13	30J aircraf	t wash rack	
utilizing econ	nomica	l design and const	truction me	ethod	ls to accor h applicat	modate the	mission of	
base design st	andar	ds. In addition. 1	local mate:	e wit rials	and const	ruction te	chniques	
shall be used	where	cost effective. H	Facilities	will	be design	ned as perm	anent	
construction i	n acc	ordance with the I	DoD Unified	d Fac	ilities Cr	riteria (UF	C 1-200-01).	
Project includ	les st	ructure, fire dete	ection/pro	tecti	on, utilit	ies, site		
improvements,	lands	caping, parking, c	concrete fa	acili	ty aprons,	, walkways,	pavements	
demolition, and	na all Tressi	on utilities sit	support. Wa	asn k ments	ack Snop 1	ing, parki	re ng. concrete	
facility apron	ns, wa	lkways, pavements	demolition	n, an	d all othe	er necessar	y support.	
This project w	vill c	comply with DoD ant	titerroris	m/for	ce protect	ion requir	ements per	
UFC 4-010-01.								
Air Conditioni	ng:	20 Tons						
11. Requirement	nt: 85	64 SM Adequate:	: 3388 SM	Su	bstandard	: 0 SM		
PROJECT: Cons	PROJECT: Construct a HC-130J Wash Rack. (New Mission)							
REQUIREMENT:	Adequ	ate space is requi	ired to pro	ocess	НС-130Ј а	aircraft fo	r washing	
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1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION PROJECT DAT	ſA	2. DATE		
AIR FORCE	(computer generated)							
3. INSTALLATION,	ON, SITE AND LOCATION 4. PROJECT TITLE							
DAVIS-MONTHAN AI	R FORCE I	BASE	HC-130J WASH RACK					
DAVIS MONTHAN AFB SITE # 1								
ARIZONA								
5. PROGRAM ELEME	NT 6.	CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)		
27224		211-159 1650/FBNV113005 12,200						

maintenance in support of Personnel Recovery (PR) assets. The facility will provide aircraft washing capabilities in support of corrosion control functions. There must be adequate aircraft pavements for towing, maneuvering and parking of aircraft during maintenance activities. Provide tow way capability from edge of existing ramp to Wash Rack aircraft access. A shop facility is required for administrative space and equipment/tool storage. Aircraft began arriving in FY11/3Q; all combat coded aircraft are now present.

<u>CURRENT SITUATION:</u> There are currently no facilities on the installation large enough that can be modernized or renovated to accept the HC-130J wash rack requirements as part of the HC-130J recapitalization effort. Personnel are required to carry out their corrosion control functions in undersized and inadequate facilities. Different than standard C-130 variants, the HC-130J is constructed of differing material and also requires engine removal for corrosion control activities. The project requirement and scope were identified as part of the HQ ACC Facilities Site Survey 16-20 April 2007 and the HQ ACC SATAF, May 2009 and February 2010.

<u>IMPACT IF NOT PROVIDED:</u> Adequate facilities will not be available to perform essential HC-130J maintenance operations forcing inadequate and high risk workarounds. The potential for significant degradation of mission performance and capabilities will be increased until eventual total loss of mission capability is realized due to aircraft non-availability.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". An analysis of reasonable alternatives to meet this requirement (status quo, renovation, new construction) has been completed and new construction is the only viable option to meet this requirement. A certificate of exemption has been prepared. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (520) 228-340. (HC-130J Wash Rack: 2,020 SM = 21,743 SF; Wash Rack Equipment/Tool Shed: 461 SM = 4,962 SF)

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

1. COMPONENTFY 2016 MILITARY CONSTRUCTION PROJECT DATAAIR FORCE(computer generated)									. DATE	
3. INSTALLATION AND LOCATION 4. PROJECT TITLE										
DAVIS-MONTHAN AIR FORCE BASE HC-130J WASH RACK										
DAVIS MONTHAN AFB SITE # 1										
ARIZONA										
5. PROGRAM ELEMENT 6. CATEGO			CODE 7. PROJECT NUMBER 8			8. PROJECT COST (\$000)				
27224		211-159	59 1650/FBNV113005				12	12,200		
12. SUPPLEMEN	TAL DAT	A:								
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 -									NO	
(3) All Other Design Costs									488	
(4) Construction Contract Award									FEB	
(5) Construction Start									MAR	
(6) Construction Completion								17	SEP	
(7) Energy Study/Life-Cycle analysis was/will be performed									YES	
EQUIPMENT	NOMENC	LATURE	PROC	URING	APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)	
FURNITURE	FURNITURE/WORKSTATIONS/FILES			3400		2	2017		15	
COMMUNICATIONS				3400			2017		25	
1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE			
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AIR FORCE		(c	omputer ger	erate	d)					
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE						
DAVIS-MONTHAN A	IR FOR	CE BASE		HC-130J AGE COVERED STORAGE						
ARIZONA		. <u>.</u>								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	8. PROJECT COST (\$000)			
27224		218-712	1650,	/FBNV1	13008		4,700			
		9. C	OST ESTIMA	ATES						
		ITEM		U/M	OUANTITY	UNIT	COST			
					20		(\$000)			
PRIMARY FACILIT	IES						1,818			
HC-130J AGE ST	ORAGE	FACILITY		SM	1,123	1,587	(1,782)			
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(36)			
SUPPORTING FACI	LITIES						2,251			
UTILITIES				LS			(358)			
PAVEMENTS/DEMO	LITION			LS			(1,475)			
COMMUNICATIONS	NTS GUDDO	DΨ					(278)			
PASSIVE FORCE	PROTEC	TION MEASURES		LS			(60)			
SUBTOTAL						-	4.069			
CONTINGENCY	(5.0%))					203			
TOTAL CONTRACT (COST					-	4,273			
SUPERVISION, IN:	SPECTI	ON AND OVERHEAD	(5.7%)				244			
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				163			
TOTAL REQUEST						-	4,679			
TOTAL REQUEST (1	ROUNDE	D)					4,700)			
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				(35			
10. Descripti	on of	Proposed Construct	ction: Co	nstru	ct a HC-13	30J AGE (Aer	ospace			
construction m	nt) c	s to accommodate i	the missio	n of	the facili	ity. The fac	na ility			
should be comp	atibl	e with applicable	DoD, Air	Force	, and base	- e design sta	ndards. In			
addition, loca	al mat	erials and constru	uction tec	hniqu	es shall b	be used wher	e cost			
effective. Fac	iliti d Fac	es will be designe	ed as perm	anent	Construct	tion in acco	rdance with			
facility, util	lities	, site improvement	ts, landsc	aping	, parking,	, screen wal	ls,			
concrete facil	lity a	prons, walkways, p	pavement d	emoli	tion, and	all other n	ecessary			
support. This	s proj	ect will comply w	ith DoD an	titer	rorism/for	rce protecti	on			
requirements p	per UF									
11. Requirement	nt: 13	894 SM Adequate	e: 2452 SM		ubstandard	1: 1719 SM				
PROJECT: Cons	struct	HC-130J AGE Cover	red Storag	e Fac	ility. (N	New Mission)				
REQUIREMENT:	Adequ	ate and properly o	configured	spac	e is requi	ired to prov	ide AGE			
storage in sup	port	of Personnel Recov	very (PR)	opera	tional mis	ssions and t	raining.			
The AGE facili	ty wi	ll store non-power	red and po	wered	equipment	, and provi	de			
capadility to	inspe eadin	ect, maintain, repaired and the PR Cent	air and se ter of Exc	rvice eller	ce communi	pment to sus itv. This p	tain and roject			
requirement an	nd sco	pe was identified	as part o	f the	HQ ACC Fa	acilities Si	te Survey			
16-20 April 20	07.									
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1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	JCTION PROJECT DAT	ſA	2. DATE		
AIR FORCE		(c	omputer gen	nerated)				
3. INSTALLATION	, SITE	E AND LOCATION		4. PROJECT TITLE				
DAVIS-MONTHAN A	RCE BASE	HC-130J AGE COVE	RED STORAGE					
DAVIS MONTHAN A	DAVIS MONTHAN AFB SITE # 1							
ARIZONA								
5. PROGRAM ELEM	IENT	6. CATEGORY CODE	7. RPSUID/	OST (\$000)				
27224		218-712	1650	/FBNV113008	4	,700		
CURRENT SITUAT	ION:	There are no faci	lities av	ailable or that	can be effi	ciently		
modernized to	accer	ot the AGE storage	requireme	nt as part of t	he Personnel	Recovery		
weapon system	beddo	wn; HC-130J recapi	italizatio	n. Personnel R	ecovery main	tenance		
personnel are	requi	red to carry out t	heir dail	y functions in	inadequate f	acilities,		
and due to a 1	lack c	of space, perform v	work and s	tore equipment	on the ramp	in harsh		
environmental	condi	tions.			· · · · · ·			
TYPE CELLONDAL	DDOUT				1-1-1-	6		

<u>IMPACT IF NOT PROVIDED</u>: Adequate facilities will not be available to perform essential PR AGE storage operations forcing inadequate and high risk workarounds. The potential for significant degradation of mission performance and capabilities, including damage to equipment, will be increased until eventual total loss of mission capability is realized due to aircraft non-availability. PR will not be able to generate aircraft without the appropriate support from the AGE mission. <u>ADDITIONAL</u>: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". An analysis of reasonable alternatives to meet this requirement (status quo, renovation, new construction)has been completed and new construction is the only viable option to meet this requirement. A certificate of exemption has been prepared. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (520) 228-3401; (HC-130J AGE Storage Facility: 1,123 SM = 12,085 SF).

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

1. COMPONENT AIR FORCE		FY 2016 MILITARY (compute	CONSTRI ter gen	1. COMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated)											
3. INSTALLATIO	ON AND L	OCATION		4. PROJECT TI	TLE										
DAVIS-MONTHAN DAVIS MONTHAN ARIZONA	AIR FOR AFB SIT	CE BASE E # 1		HC-130J AGE C	OVERED STORAGE	5									
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CC)ST (\$000)									
		218-712	165	0/FBNV113008	4,	/00									
12. SUPPLEMEN	12. SUPPLEMENTAL DATA: a. Estimated Design 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 Ot	her Des	ign Costs				188									
(4) Constr	ruction	Contract Award				16 FEB									
(5) Constr	ruction	Start				16 MAR									
(6) Constr	ruction	Completion				17 MAR									
(7) Energy	/ Study/	Life-Cycle analysi	s was/	will be perfor	rmed	YES									
b. Equipmen	t associ	ated with this pro	ject p	provided from a	other appropri	ations:									
EQUIPMENT	NOMENCI	PRC	CURING	FISC APPRC APPRC OR RI	AL YEAR DPRIATED EQUESTED	COST (\$000)									
COMM EQUI	PMENT		340	0 :	2016	35									

1. COMPONENT AIR FORCE		F	Y 2016 M	ILITARY	CONSTRU	JCTION	PROGRA	М	2. DATE		
3. INSTALLATION A LUKE AIR FORCE B ARIZONA	AND LOCA BASE	ATION:		4. COMN AIR EDU TRAININ	4. COMMAND: AIR EDUCATION AND TRAINING COMMAND				5. AREA CONST COST INDEX 0.98		
6. Personnel	PEF	RMANENT	-	STU	JDENTS	<u></u>	SUF	PORTED)		
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL	
AS OF 30 SEP 14	317	2877	840	119	627	0	934	6232	907	12,853	
END FY 2019	309	2804	676	119	627	0	934	6232	907	12,608	
7. INVENTORY DA	TA (\$000)										
 a. Total Acreage: b. Inventory Total as c. Authorization Not d. Authorization Rec e. Planned in Next F f. Remaining Deficie 	3,710 s of : (30 s Yet in Inv quested in Four Year	Sep 14) entory: this Progr Program:	ram: (FY2	2016)						1,573,231 93,299 56,700 66,800 30,000	
d Grand Total:	ncy.								-	1 820.030	
g. Grand Fotal.										1,020,000	
8. PROJECTS REQ CATEGORY	UESTED	IN THIS F	'ROGRAN	M:		(FY2016))	COST	DESIGN	STATUS	
CODE	PROJEC	<u>T TITLE</u>				<u>SCOPE</u>		\$,000	<u>START</u>	CMPL	
126-926	F-35A AD	AL Fuel C	Offload Fa	cility		4	EA	5,000	Design/Bu	bliu	
211-177	F-35A Sq	Ops/AML	J/Hangar/	Sq 4	~	7,110	SM	33,000	Design/Bu	bliu	
211-177	F-35A Air	craft Main	Itenance I	Hangar/So	13	2,828	SM	13,200	Design/Bu	blit	
422-275	F-30A DU	MD Dulla-	Ор ғастқ	у		TOTAL	Sivi	56,700	Design/bu	Ша	
9a. Future Projects:	Typical F	lanned in	Next Fou	ır Years:							
131-111	Communi	ications Fa	acility			3.537	SM	21.000			
141-753	F-35A Sq	uadron O	perations	Facility/Se	a 5	2,070	SM	11,000			
141-753	F-35A Sq	uadron O	perations	Facility/Se	q 6	2,070	SM	11,800			
211-154	F-35A Air	craft Main	Itenance I	Jnit 5/6		4,791	SM	23,000	_		
						TOTAL		66,800			
9h Real Property M	laintenanc	e Backloc	This Inst	allation (\$M)					208	
10 Mission or Major	r Function	e An F-16	and F-3	5 flying tra	vining winc	which co	onducts fli	abt and ci	rew chief	200	
training for the Comb	hat Air For	ce and Air	r Control f	training.	ming wing	j winon ot	Jiuuoto in	yn and o	CW ONG		
11. Outstanding poll	lution and	Safety (O	SHA) Def	ficiencies:							
a. Air pollution			- ,					0			
b. Water Pollution 0											
c. Occupational	Safety and	d Health						0			
d. Other Environ	imental							0			

1. COMPONENT		FY 2016 MILI	TARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE		
AIR FORCE		((computer gen	erate	d)				
3. INSTALLATION	, SIT	E AND LOCATION		4. PH	ROJECT TITLI	Ξ			
LUKE AIR FORCE	BASE			F-35A	ADAL FUEL	OFFLOAD FACIN	LITY		
LUKE A F BASE S	ITE #	1							
ARIZONA		[
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PF	OJECI	I NUMBER	8. PROJECT	COST (\$000)		
27597		126-926	2517/N	UEX09	3009		5,000		
		9.	COST ESTIMA	TES	1				
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)		
DRIMARY FACTLIT	r F S						3 152		
TRUCK OFFLOADI	NGSKI	IDS (126926)		EA	3	589,879	(1,770)		
MODIFY MANIFOL	D PIPI	ING (125554)		LS	5	5057075	(1,320)		
SUSTAINABILITY	AND B	ENERGY MEASURES		LS			(62)		
SUPPORTING FACII	LITIES	l					1,310		
UTILITIES				LS			(250)		
PAVEMENTS				LS			(100)		
SITE IMPROVEME	NTS			LS			(460)		
ENVIRONMENTAL	REMEDI	LATION		LS			(500)		
SUBTOTAL							4,462		
CONTINGENCY	(5	5.0%)					223		
TOTAL CONTRACT (COST					-	4,685		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				267		
TOTAL REQUEST							4,952		
TOTAL REQUEST (F	ROUNDE	D)					5,000		
10. Descripti	on of	Proposed Constru	uction: Mod	lify	existing f	uel bulk st	orage		
piping manifol	d to	allow simultaneou	is issue and	l rec	eipt to an	nd from fuel	storage		
area. Install	thre	e truck offloadir	ng skids. P	rovi	de the nec	essary site			
Facilities wil	na ut 1 be	designed as perma	anent constr	comp ucti	on in acco	rdance with	the DoD		
Unified Facili	ties	Criteria (UFC) 1-	-200-01. Th	nis p	roject wil	l comply wi	th DoD		
antiterrorism/	force	protection requi	irements per	UFC	4-010-01.				
Air Conditioni	ng:	0 Tons							
11. Requiremen	t: 4	EA Adequate: 1	LEA Subs	stand	ard: 3 EA				
PROJECT: F-35	A ADA	L Fuel Offload Fa	acility (New	v Mis	sion)				
REQUIREMENT:	Modif	ication to the fu	el bulk sto	orage	piping ma	nifold is r	equired to		
support the Jo	int S	Strike Fighter (JS	3F) F-35A ai	.rcra	ft bed dow	m at Luke A	FB. The		
tuel lines and manifolds connecting the bulk storage area and day tanks must be									
The current c	onfig	uration routinely	/ isolates t	he 3	0,000 barr	el tank and	the 10,000		
barrel tank du	ring	receipts leaving	only the da	y ta	nks, 24% c	of the total	base		
storage, to pr	ovide	aircraft fuel su	upport while	e fue	l is recei	ved. In add	dition,		
three tank tru	three tank truck offloading skids are required.								

CURRENT SITUATION: The current fuels infrastructure is not flexible enough to meet the anticipated 240% JP-8 daily demand rate increase from the current F-16 requirement. TO 42B-1-1, para. 3.7 requires operators to observe a minimum eight hour settling time for fuel received to ensure product quality. Without this piping modification, product settling times will not be consistently observed and

1. COMPONENT	FY 2016 MILI	ITARY CONSTRUCTION PROJECT DA	ATA 2. DATE						
AIR FORCE	((computer generated)							
3. INSTALLATION	.E								
LUKE AIR FORCE	BASE	F-35A ADAL FUEL	OFFLOAD FACILITY						
LUKE A F BASE S	ITE # 1								
ARIZONA									
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)						
27597	126-926	2517/NUEX093009	5,000						

may lead to degradation of product quality. The current tank truck offload header allows only one commercial truck to be offloaded at a time. This single tank truck offloading header is also collocated with the truck fillstands so fuel cannot be simultaneously offloaded while resupplying base refueling units. The addition and dispersal of offloading headers will provide the versatility to support aircraft demands while performing tank truck receipts. These offloading headers will also provide sufficient resupply capacity during periods when the pipeline is out of service to support the base flying mission.

IMPACT IF NOT PROVIDED: The existing fuel infrastructure and fuel issue capabilities will not be able to support the projected number of F-35A aircraft, adversely impacting F-35A training operations.

ADDITIONAL: The scope of this project is based on the Joint Strike Fighter Facilities Requirements Documents (FRD) developed by the Lockheed-Martin Aeronautics Company and Air Force Manual 32-1084, Facilities Requirements. An economic analysis of reasonable options is currently being prepared comparing alternatives of status quo, renovation, addition/alteration and new construction. Preliminary analysis shows that ADAL is the most feasible alternative. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (623) 856-6135. Fuel Offload Facility: 3 OL (EA).

JOINT USE CERTIFICATION: This is an installation utility/infrastructure project, and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.

1. COMPONENT		FY 2016 MILITARY CO	ONSTRUC	TION PROJECT	DATA	2. DATE			
AIR FORCE		(compute	er gene	rated)					
3. INSTALLATI	ON AND I	LOCATION		4. PROJECT	FITLE				
LUKE AIR FORC LUKE A F BASE ARIZONA	E BASE SITE #	1		F-35A ADAL 1	FUEL OFFLOAD E	ACILITY			
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)			
27597		126-926	2517/	NUEX093009	5,	000			
12. SUPPLEMEN	TAL DAT	A:							
a. Estimate	ed Design	n Data:							
(1) Statu	IS:								
(a) Da	te Desig	gn Started			21	-MAY-14			
(b) Pa	arametri	c Cost Estimates use	ed to de	evelop costs		YES			
* (c) Pe	ercent Co	omplete as of 01 JAN	1 2015			15%			
* (d) Da	ate 35% 1	Designed			27	-FEB-15			
(e) Da	te Desig	gn Complete			30	-SEP-15			
(f) Er	nergy Stu	udy/Life-Cycle analy	rsis was	s/will be per	formed	YES			
(2) Basis	:								
(a) St	andard o	or Definitive Design	L –			NO			
(b) Wh	nere Des	ign Was Most Recentl	y Used	-					
(3) Total	. Cost (d	c) = (a) + (b) or (d)) + (e)):		(\$000)			
(a) Pr	oductio	n of Plans and Speci	ficatio	ons		300			
(b) Al	1 Other	Design Costs				150			
(c) To	otal	J				450			
(d) Co	ontract					375			
(e) Ir	n-house					75			
(4) Const	ruction	Contract Award				16 FEB			
(5) Const	ruction	Start				16 MAR			
(6) Const	ruction	Completion				17 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	nt assoc:	iated with this proj	ect pro	ovided from c	other appropri	ations:			

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION	PROJECT DAT	2. DATE		
AIR FORCE		(c	omputer gen	erate	d)			
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE				
LUKE AIR FORCE	BASE			F-35A AIRCRAFT MAINTENANCE HANGAR				
LUKE A F BASE S	ITE #	1		(SQUADRON 3)				
ARIZONA					~			
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27597		211-177	2517/	NUEX1	23005	:	13,200	
		9. 0	OST ESTIMA	TES				
		ITEM		∪/м	OUANTTTY	UNIT	COST	
					~ ~ ~		(\$000)	
PRIMARY FACILITY	Y						8,778	
MAINT DOCK S/A				SM	2,828	3,043	(8,606)	
SUSTAINABILITY	SUSTAINABILITY AND ENERGY MEASURES						(172)	
SUPPORTING FACIN	LITIES						2,694	
UTILITIES				LS			(485)	
PAVEMENTS				LS			(1,165)	
SITE IMPROVEME	NTS			LS			(291)	
COMMUNICATIONS	REQUI	REMENTS		LS			(209)	
RELOCATE STORM	SEWER	S		LS			(44)	
DEMOLITION, VE	RTICAL	/ENVIRON REMEDIATION	T	SM	871	574	(500)	
SUBTOTAL							11,472	
CONTINGENCY	(5.0%))					574	
TOTAL CONTRACT	COST					-	12,046	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				687	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF 5	SUBTOTAL)				459	
TOTAL REQUEST							13,191	
TOTAL REQUEST (1	ROUNDE	D)					13,200	
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				2,196	
10. Descripti	on of	Proposed Construc	ction: Con	nstru	ict a 6 bay	Aircraft M	aintenance	
Hangar. Work	will	include a High Exp	pansive For	am (H	(EF) fire s	uppression	system in a	
masonry block	exter	ior walls, and sta	anding sear	n met	al roof.	Work will	include F-	
35A-unique ele	ctric	al receptacles at	each airc	raft	position w	ith associa	ted power	
distribution s	system	, aircraft cooling	g units (Ad	CUs)	at each ai	rcraft posi	tion with	
associated pop	-up p	ower and cooling i	infrastruc	ture,	and hanga	r lighting.	Partially	
demolish one f	acili	ty (871 SM). Rero	oute storm	drai	n lines th	at cross th	e project se with the	
DoD Unified Fa	cilit	ies Criteria (UFC)) $1-200-01$. Th	is project	will compl	v with DoD	
antiterrorism/	force	protection requir	rements per	r UFC	4-010-01.	-	•	
Air Conditioni	ng:	0 Tons						
11. Requirement	nt: 30	317 SM Adequate	e: 24395 SI	м	Substandar	d: 5922 SM		
PROJECT: Cons	struct	an F-35A Aircraft	t Maintena	nce H	langar faci	lity. (New	Mission)	
REQUIREMENT:	An Ai	rcraft Maintenance	e Hangar is	s req	uired to s	upport the	beddown of	
the Joint Stri	.ke Fi	ghter (JSF) F-35A	aircraft.	Fli	.ghtline ma	intenance i	s semi-	
autonomous and	i resp	mary mission airco	aunch, serv	vice,	on-equipm ility will	ent repair,	inspection	
maintenance ar	ea fo	or unscheduled air	craft main	tenan	ce, latrin	es and mech	anical	
equipment room	n requ	ired to support th	he aircraft	t and	mission o	f the parti	cular	
DD FORM 1391,	DEC 9	9 Previou	us editions	s are	obsolete.		Page No.	

FEBRUARY 2015

Previous editions are obsolete. DD FORM 1391, DEC 99

Page No.

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27597	211-177	2517/NUEX123005	13,200					
squadron. The F-35 cooled air to heat- procedures. The h	A requires ACUs at sensitive componer angar will provide	e each aircraft position. Its on the aircraft durin 6 spaces for unschedule	These ACUs provide g maintenance d maintenance.					
<u>URRENT SITUATION:</u> The base lacks adequate facilities to conduct squadron level maintenance for the third F-35A squadron mission. The operational squadrons are required to work, train, deploy, and fight as independent squadrons. The current squadron operations and AMU are geographically separated from their hangar maintenance facilities and prevents the squadron from training as a unit. Currently maintainers need to roll their tool carts up to half mile from their AMU to their maintenance hangar. This facility is late to need as aircraft for the Brd Squadron begin arriving in Nov 2016, although there are short term workarounds, at the expense of unit cohesiveness and efficiency. <u>MPACT IF NOT PROVIDED:</u> Without this project being funded and executed in 2016, the required maintenance hangar space will not be available for F-35A aircraft maintenance causing delays in sortie generation. Work-arounds do not allow the squadron to train together and significantly impacts the training mission required to support the F-35A program at the Pilot Training Center. CY16-CY18 is a critical time in the beddown of the F-35A henceprise wide because of operational units								
standing up CONUS a maximum available c	nd OCONUS, all of apacity.	which require PTC pilot	production to be a					
ADDITIONAL: The sc Strike Fighter Faci Martin Aeronautics for the JSF Squad O Force manual 32-108 security requiremen options was accompl reuse, addition/alt reasonable options addition/alteration include Life Cycle development, and co 1 March 2013. Base JOINT USE CERTIFICA available" basis; h requirements.	ope and criteria f lity Requirements Company and the Eq perations/AMU/Hang 4 does not adequat ts of the F-35A mi ished comparing al eration, and new c comparing alternat , and new construct cost-effective pra nstruction of the Civil Engineer: (<u>TION:</u> This facilit owever, the scope	for this project is conta Document (FRD) developed glin and Luke AFB design gar facility. As a new w sely address the operation ission. A preliminary an iternatives of status quo construction. A full eco inves of status quo, reno itives	ined in the Joint by the Lockheed- analysis and drawings eapon system, Air nal, training, and alysis of reasonable o, renovation and nomic analysis of vation/reuse, inable principles, to ed into the design, th UFC 1-200-02, dated 2,828 SM (30,439 SF). components on an "as on Air Force					

1. COMPONENT AIR FORCE

LUKE AIR FORCE BASE

5. PROGRAM ELEMENT

ARIZONA

LUKE A F BASE SITE # 1

3. INSTALLATION, SITE AND LOCATION

6. CATEGORY CODE

4. PROJECT TITLE

(SQUADRON 3)

7. RPSUID/PROJECT NUMBER

F-35A AIRCRAFT MAINTENANCE HANGAR

8. PROJECT COST (\$000)

1. COMPONENT AIR FORCE		FY 2016 MILITARY ((comput	ONSTRU	UCTION herated	PROJECT	DATA	2	. DATE
				4 554		mr 13	<u> </u>	
LUKE AIR FORCE LUKE A F BASE ARIZONA	E BASE SITE #	1		4. PRO F-35A (SQUAL	DJECT TI AIRCRAF DRON 3)	TLE T MAINTENANCE	HAI	NGAR
5. PROGRAM ELI	EMENT	6. CATEGORY CODE	7. PI	ROJECT	NUMBER	8. PROJECT CC)ST	(\$000)
27597		211-177	251	7/NUEX	123005	13,	,200	0
12. SUPPLEMEN	TAL DATA	A: Data:						
(1) Projog	u Desigi	agamplighed by d	ai an -	build .	orogodur	0.5		
(1) FIOJEC		accomprished by de	stgn-	build j	procedur	65		
(2) Basis. (a) Sta (b) What	andard o ere Des:	or Definitive Desig ign Was Most Recent	n - ly Use	ed -				NO
(3) All Ot	her Des	ign Costs						528
(4) Constr	uction	Contract Award					16	FEB
(5) Constr	ruction	Start					16	MAR
(6) Constr	ruction	Completion					17	SEP
(7) Energy	/ Study/	Life-Cycle analysi:	s was/	will b	e perfor	med		YES
b. Equipment	t associ	ated with this pro	ject <u>p</u>	provide	d from c	other appropri	ati	lons:
EQUIPMENT	NOMENCI	PRO	CURING	APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)
AIRCRAFT	COOLING	UNITS	340	0		16		1,500
FF&E			340	0		17		696

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE	
AIR FORCE		(c	omputer gen	erate	d)			
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	2		
LUKE AIR FORCE	BASE	1		F-35A SQUADRON OPERATIONS/AMU/HANGAR				
ARIZONA	11 <u>5</u> #	-						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	ECT COST (\$000)	
27597		211-177	2517/	NUEX1	23004	:	33,000	
	9. COST ESTI					•		
		TTEM		TT/M	OIIANTTTY	UNIT	COST	
		1154		0711	QUANIIII		(\$000)	
PRIMARY FACILITIES							21,721	
SQ OPS/AMU (CA	SQ OPS/AMU (CAT CODE 141-753)					3,181	(12,606)	
MAINT DOCK S/A	(CAT	CODE 211-177)		SM	2,828	2,947	(8,334)	
COVERED OUTDOO	R STOR	AGE (CAT CODE 452-25	2)	SM	319	1,113	(355)	
SUSTAINABILITY	& ENE	RGY MEASURES		LS			(426)	
SUPPORTING FACIN	LITIES						7,399	
UTILITIES				LS			(1,514)	
PAVEMENTS				LS			(3,634)	
SITE IMPROVEME	NTS			LS			(908)	
ELECTRICAL FEE	DER AN	D SWITCHGEAR		LS			(191)	
COMMUNICATIONS	REQUI	REMENTS		LS			(652)	
DEMOLITION, VE	RTICAL			SM	1,389	360	(500)	
SUBTOTAL							29,121	
CONTINGENCY	(5.0%))					1,456	
TOTAL CONTRACT (COST						30,577	
SUPERVISION, IN:	SPECTI	ON AND OVERHEAD	(5.7%)				1,743	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)			_	1,165	
TOTAL REQUEST							33,484	
TOTAL REQUEST (1	ROUNDE	D)					33,000)	
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				(4,259	
EQUIPMENT FROM (10. Descripti	OTHER	Proposed Construc	ADD)	ild a	combined	Multi Story	(4,259 Squadron	
Operations and	l Airc	raft Maintenance U	Jnit (AMU)	faci	lity with	attached 6	bay	
Aircraft Maint	enanc	e Hangar. Work wi	ill includ	e a f	acility wi	th fire sup	pression, a	
walls, standir	or sea	m metal roof and r	ew electr	datio ical	n system, feeder inc	masonry bio luding swit	ck exterior	
breakers with	redun	dant, right-sized	capacity	to su	pport F-35	5 requiremen	ts. The	
facility inclu	udes h	angar bay area, so	uadron op	erati	ons areas	including m	ission	
planning, pilo	ot bri	efing rooms, admir	nistration	, lif	e support	maintenance	, aircraft	
maintenance un	nit re	ady room, support	area, sec	ure s	torage and	l AMU admini	strative	
areas. Demoli	.sh th	ree facilities (1,	,389 SM).	Work	will incl	ude F-35A-u	nique	
system aircra	eptac	oling units (Acus)	art position	on W1 aircr	th associa	ntea power d	istribution	
pop-up power a	and co	oling infrastructu	re, fall	arres	t system,	and hangar	lighting.	
Facilities wil	l be	designed as perman	nent const	ructi	on in acco	ordance with	the DoD	

Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 160 Tons

11.	Requirement:	29459	SM	Adequate:	25496	SM	Substandard:	3963	SM

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 1. COMPONENT
 FY 2016 MILITARY CONSTRUCTION PROJECT DATA
 2. DATE

 AIR FORCE
 (computer generated)
 4. PROJECT TITLE

 JUKE AIR FORCE BASE
 F-35A SQUADRON OPERATIONS/AMU/HANGAR

 LUKE A F BASE SITE # 1
 (SQUADRON 4)

ARIZONA			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27597	211-177	2517/NUEX123004	33,000

<u>PROJECT:</u> Construct an F-35A Squadron Operations/Aircraft Maintenance Unit/Aircraft Hangar facility. (New Mission)

REQUIREMENT: A consolidated Squadron Operations and Maintenance facility with Aircraft Hangar is required to support the beddown of the Joint Strike Fighter (JSF) F-35A aircraft. 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 maintenance, a tool crib, ready room, equipment issue area, classified vault storage area, equipment and administrative spaces required to support the aircraft and the mission of the particular squadron. The F-35A requires ACUs at each aircraft position. These ACUs provide cooled air to heat-sensitive components on the aircraft during maintenance procedures. The hangar will provide 6 spaces for scheduled and unscheduled maintenance.

<u>CURRENT SITUATION:</u> The base lacks adequate facilities and sufficient electrical power capacity 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. Adequate co-located hangar space for scheduled and unscheduled aircraft maintenance with the unique features required by the JSF to support F-35A maintenance do not exist.

<u>IMPACT IF NOT PROVIDED</u>: Without this project being funded and executed in 2016, the required maintenance and operations functions and personnel will not be operationally ready to receive a fourth squadron of F-35A's beginning in October 2018. 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. By providing redundant electrical power capacity in this project in this cost-conscious environment, cost-avoidance will be realized in future F-35A projects.

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 and Luke 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. A preliminary analysis of reasonable options was accomplished comparing alternatives of status quo, renovation and reuse, addition/alteration, and new construction and found new construction to be

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Page No.

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	JCTION PROJECT DA	ТА	2. DATE				
AIR FORCE		(c	omputer gen	nerated)						
3. INSTALLATION LUKE AIR FORCE LUKE A F BASE S ARIZONA	, SITE BASE ITE #	2 AND LOCATION		4. PROJECT TITLE F-35A SQUADRON C (SQUADRON 4)	E PERATIONS/AMU/	HANGAR				
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)				
27597		211-177	2517	/NUEX123004	33	3,000				
the only viable option. A certificate of exception was prepared. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1- 200-02, dated 1 March 2013. Base Civil Engineer: (623)856-6135. Squadron Operations/AMU: 3,963 SM (42,657 SF); Covered Outdoor Storage: 319 SM (3,434 SF); Hangar: 2,828 SM (30,439 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
1. COMPONENT AIR FORCE		FY 2016 MILITA	RY CONS	TRUCTION	PROJECT	DATA	2. DATE
3. TNSTALLATT		OCATION		4	· ヘエアロック・マー・ア・	TT &	
LUKE AIR FORCH LUKE A F BASE ARIZONA	E BASE SITE #	1		F-35A (SQUA	SQUADRO DRON 4)	N OPERATIONS/	AMU/HANGAR
5. PROGRAM EL	EMENT	6. CATEGORY C	ODE 7.	PROJECT	NUMBER	8. PROJECT CO	OST (\$000)
27597		211-177	2	517/NUEX	123004	33,	,000
12. SUPPLEMEN a. Estimate	TAL DAT <i>i</i> d Desigr	A: Data:					
(1) Projec	t to be	accomplished b	y desig	n-build	procedur	es	
(2) Basis: (a) St (b) Wh	: andard o ere Des:	or Definitive Do Ign Was Most Rec	esign - cently (Jsed -			NO
(3) All Ot	her Des	ign Costs					1,320
(4) Constr	ruction	Contract Award					16 FEB
(5) Constr	ruction	Start					16 MAR
(6) Constr	ruction	Completion					18 MAR
(7) Energy	/ Study/	Life-Cycle anal	ysis wa	s/will b	e perfor	med	YES
b. Equipmen	t associ	ated with this	project	provide	ed from c	other appropri	ations:
EQUIPMENT	NOMENCI	ATURE	PROCURI	NG APPRO	APPRO OR RE	PRIATED QUESTED	COST (\$000)
COMMUNICA	TIONS		3	080		17	400
FF&E			3	400		17	2,359
AIRCRAFT	COOLING	UNITS (ACUS)	3	400		16	1,500

	1									
1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE			
AIR FORCE		(computer generated)								
3. INSTALLATION	, SITE	E AND LOCATION		4. PF	ROJECT TITL	Ξ				
LUKE AIR FORCE	BASE			F-35#	BOMB BUILI	D-UP FACILITY	<u>,</u>			
LUKE A F BASE S	ITE #	1								
ARIZONA			1			1				
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)			
27597		422-275	2517.	/NUEX1	23002		5,500			
		9. 0	COST ESTIM	ATES						
				/		UNIT	COST			
		TIEW		U/M	QUANTITY		(\$000)			
PRIMARY FACILIT	IES						3,498			
BOMB PRELOAD S	TATION	(442275)		SM	5,809	239	(1,388)			
MUNITIONS HOLD	ING PA	D (116662)		SM	1,486	239	(355)			
SHELTER ON PAD	(1459	21)		SM	2,090	784	(1,639)			
ADMINISTRATION	BUILD	ING (610144)		SM	21	2,659	(56)			
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(61)			
SUPPORTING FACIN	LITIES						1,280			
UTILITIES				LS			(219)			
PAVEMENTS				LS			(550)			
SITE IMPROVEME	NTS			LS			(307)			
COMMUNICATIONS	REQUI	REMENTS		LS			(105)			
SHELTER LIGHTN	ING PR	OTECTION, STATIC GRO	DUND	LS			(100)			
SUBTOTAL							4,778			
CONTINGENCY	(5.0%)					239			
TOTAL CONTRACT	COST						5,017			
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				286			
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				191			
TOTAL REQUEST							5,494			
TOTAL REQUEST ()	ROUNDE	D)					5,500)			
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				(60			
10. Descripti	on of	Proposed Construe	ction: Co	nstru	ct new And	cillary Exp	losive			
Facility, Bomb) Prel	oad Station/Munit:	ions Assem	bly C	onveyor to	o include a	11			
supporting inf	rastr	ructure. Facility	consists	of co	ncrete pac	d and a cov	ered			
structure. Ne	w inf	rastructure requir	rements in	clude	new MSA p	perimeter f	ence with			
security light	ung,	two new roadways,	and a con	crete	munitions	s holding pa	ad with			
facility. Fac	.y and siliti	es will be designed	ed as perm	anent	construct	tion in acc	ordance with			
the DoD Unifie	d Fac	ilities Criteria	(UFC) 1-20	0-01.	This pro	oject will	comply with			
DoD antiterror	ism/f	orce protection re	equirement	s per	UFC 4-01	0-01.				
Air Conditioni	ng:	3 Tons								
11. Requirement	nt: 2	EA Adequate: 1	EA Sub	stand	lard: 0 EA					
PROJECT: Cons	struct	an F-35A Bomb Bu	ild-Up Fac	ility	. (New Mis	ssion)				
REQUIREMENT:	Const	ruct new Ancillary	y Explosiv	e Fac	ility, Bor	mb Preload	Station/			
Munitions Asse	mbly	Conveyor (MAC II)	Pad, Cat	Code	422-275 to	o include a	11			
supporting inf	supporting infrastructure. Facility consists of concrete pad 250'x250' rated at									
sides) Corre	a co	overed structure 6	u' x 150'	(26' 1en ~ +	minimum he	eight acces	s irom all			
BIGES). COVER	eu st	racture must be po	Servioned	rengt	mwise para	ATTETTIA MG	be eage OL			
DD FORM 1391,	DEC 9	9 Previou	us edition	s are	obsolete.		Page No.			

 1. COMPONENT
 FY 2016 MILITARY CONSTRUCTION PROJECT DATA
 2. DATE

 AIR FORCE
 (computer generated)
 2. DATE

 3. INSTALLATION, SITE AND LOCATION
 4. PROJECT TITLE

 LUKE AIR FORCE BASE
 F-35A BOMB BUILD-UP FACILITY

 LUKE A F BASE SITE # 1
 F-35A BOMB BUILD-UP FACILITY

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

2517/NUEX123002

422-275

pad, 25' from nearest South and West edges. Facility must be equipped with 110v/60mhz electrical outlets, static grounding system, area lighting, and a Overhead Wire Lightning Protection System (LPS) providing a zone-of-protection covering the entire 250' x 250' pad. New infrastructure requirements include 2,330' of new MSA perimeter fence with security lighting, two new roadways 25' in width totaling 1,525' in length, aligned with Thunderbolt Street to the West, Texan Street to the North and a 100'x160' concrete munitions holding pad . Additional requirement includes an administrative facility (not larger than 15' x 15') including one office equipped with HVAC, telephone and LAN computer access, surge protection, and latrine with sink, urinal, and commode. Windows must be blast resistant. A contract for construction of the facility must not be awarded prior to approval of an Explosive Site Plan for the proposed Ancillary Explosive Facilities by the DoD Explosive Safety Board (DDESB). The facility is required to be operational no later than July 2017.

CURRENT SITUATION: F-35 requirements cannot be met due to present size, siting, and stand-off of existing bomb build-up pad. No work-arounds will satisfy full mission requirements. The current bomb build-up pad is only 365 feet from an inhabited facility, limiting authorized amounts of HC 1.1 NEW capacity to 8,000 lbs; new mission requirements would drive a siting for 30,000 lbs capacity, and an intraline distance requirement of 560 feet, which is not feasible; therefore, the bomb build-up pad must be re-sited. The 22,000 lbs deficiency diminishes mission capability. Work-around would be to build the bombs on trailers, however due to spacing requirements this would create a LIMFAC by reducing production by 50 - 65% of anticipated F-35 2,000 lb-series requirements (24 bombs/day), to a maximum of eight bombs per day. The current bomb pad limits production to approximately 30% of the AF average. The current F-16 mission requires munitions that use the 500 lb general purpose bomb; these munitions can be assembled on trailers. However, the F-35 requires munitions in the 2,000 lb series. The current work-arounds that are utilized for the 500 lb series builds (trailer builds/pallet builds) would not be feasible due to the difference in size (500 lbs vs. 2000 lbs); therefore, the 2,000 lb series would need to be built on the MAC II. Currently, facility 1231 can only support a build of eight 2,000 lb series due to a reduction in authorized amounts of HC 1.1 NEW capacity (8,000 lbs) because of intraline distance; to support the F-35 syllabus this NEW limit would not suffice. This would create a production LIMFAC in support of F-35 requirements.

<u>IMPACT IF NOT PROVIDED</u>: Without this project being funded and executed in 2016, the bomb build-up production rate would drop to one-third of the required munitions to support the F-35A training mission, causing delays in sortie generation. Workarounds cannot mitigate production shortfalls.

<u>ADDITIONAL:</u> T.O. 35D2-17-11 requires a minimum pad size of 50' x 150'. This does not take into account the space required to stage components, position empty and full munitions trailers and provide space for munitions handling equipment. Munitions Assembly Procedures T.O. 11A-1-63 and AF TTP 3-3 state the ideal pad size for a bomb build operation is 250' x 250'. As a new weapon system, Air Force

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27597

Page No.

5,500

1. COMPONENT		FY 2016 MILIT	ГА	2. DATE						
AIR FORCE		(computer generated)								
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE	2					
LUKE AIR FORCE	ORCE BASE F-35A BOMB BUILD-UP FACILITY									
LUKE A F BASE S	ITE # 1									
ARIZONA										
5. PROGRAM ELEM	ENT (6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)				
27597		422-275 2517/NUEX123002 5,500								
				_		_				

manual 32-1084 does not adequately address the operational, training, and security requirements of the F-35A mission. A economic analysis of reasonable options comparing alternatives of status quo, renovation/reuse, addition/alteration, and new construction was performed finding new construction to be the best option. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (623) 856-6135. Bomb Preload Station: 5,809 SM=6,948 SY. Munitions Holding Pad: 1,486 SM=1,778 SY. Shelter on Pad: 2,090 SM=22,497 SF. Admin Building: 21 SM = 226 SF. JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.

1. COMPONENT AIR FORCE		FY 2016 MILITARY (comp	CONSTR iter ge	UCTION nerated	PROJECT	DATA	2	. DATE
3. INSTALLATIO	ON AND L	OCATION		4. PRC	JECT TI	TLE		
LUKE AIR FORCI LUKE A F BASE ARIZONA	E BASE SITE #	1		F-35A	BOMB BU	ILD-UP FACILI	ſY	
5. PROGRAM EL	EMENT	6. CATEGORY COD	E 7. P	ROJECT	NUMBER	8. PROJECT CC)ST	(\$000)
27597		422-275	251	7/NUEX	123002	5,	500	
12. SUPPLEMEN	TAL DAT	A:						
a. Estimate	d Design	n Data:						
(1) Projec	ct to be	accomplished by	design-	build p	procedur	es		
(2) Basis: (a) St (b) Wh	andard o ere Des:	or Definitive Desi ign Was Most Recen	.gn - htly Use	ed -				NO
(3) All Ot	ther Des	ign Costs						220
(4) Constr	ruction	Contract Award					16	FEB
(5) Constr	ruction	Start					16	MAR
(6) Constr	ruction	Completion					17	SEP
(7) Energy	y Study/	Life-Cycle analys	is was/	will be	e perfor	med		YES
b. Equipmen	t associ	iated with this pr	oject j	provide	d from c	other appropri	ati	.ons:
EQUIPMENT	NOMENC	PR	OCURING	APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)
FURNISHIN	IGS AND	EQUIPMENT	340	0	2	017		60

1. COMPONENT AIR FORCE		F	Y 2016 M	ILITARY	ARY CONSTRUCTION PROGRAM				2. DATE	
3. INSTALLATION A USAF ACADEMY COLORADO	ND LOCA	TION:		4. COMN UNITED ACADEN	IAND: STATES / IY	AIR FORC	ЭE	5. AREA COST IN 1.08	CONST DEX	
6. Personnel	PEF	RMANENT	_	STU	DENTS	SUF	UPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	929	1011	2483	0	182	0	21	4400	190	9,216
END FY 2019	902	872	2223	0	182	0	21	4400	190	8,790
 INVENTORY DA a. Total Acreage: b. Inventory Total as 	TA (\$000) 53,276 s of : (30 \$	Sep 14)								2,936,161
c. Authorization Not	Yet in Inv	entory:								30,890
d. Authorization Rec	quested in	this Prog	ram: (FY2	2016)						10,000
e. Planned in Next F	our Year	Program:								57,800
f. Remaining Deficie	ency:								-	36,000
g. Grand Total:										3,070,851
8. PROJECTS REQ	UESTED	IN THIS F	PROGRA	M:		(FY 2016)	COST		
CODE		ΓΤΙΤΙΕ				SCOPE		\$ 000	START	CMPI
730-838	Construct	Front Ga	tes Force	Protectio	n	2	EA	10.000	Design/B	uild
	Enhancer	nents				TOTAL		10,000		
9a. Future Projects:	Typical F	Planned N	ext Four `	Years:						
171-853	Transonic	Wind Tu	nnel Facil	lity		5,512	SM	25,200		
724-433	Consolida	te Cadet	Preparato	ory Schoo	l Dorm	6,522	SM	32,600		
						TOTAL		57,800		
9b. Real Property M	laintenand	e Backloo	This Ins	tallation: (\$M)					187
10. Mission or Maio	r Function	s: Respor	sible for	providina	education	and traini	ing for ca	dets to be	come Air F	orce
officers; a training wi base wing	ing includi	ng three fl	ying train	ing squad	rons supp	oorting par	rachuting	and glider	aircraft; a	ind an air
 Outstanding poll a. Air pollution 	lution and	Safety (O	SHA Def	iciencies:				0		
b. Water Pollutio	on							0		
c. Occupational	Safety an	d Health						0		
d. Other Enviror	nmental							0		

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE		
AIR FORCE		(computer generated)							
3. INSTALLATION	, SITE	AND LOCATION		4. PF	OJECT TITLE	5			
USAF ACADEMY				FRONT	GATES FORC	E PROTECTION	I ENHANCEMENTS		
USAF ACADEMY	SITE	# 1							
COLORADO		1			-				
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
86076		730-837	3368,	/XQPZ0	94013		10,000		
		9. C	OST ESTIM	TES					
		т при		TT /M	OTTANETEN	UNIT	COST		
		TIEW		0/M	QUANTITY		(\$000)		
PRIMARY FACILIT	IES						7,308		
NORTH GATE FOR	CE PRO	TECTION		EA	1	3,200,000	(3,200)		
SOUTH GATE FOR	CE PRO	TECTION		EA	1	4,000,000	(4,000)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(108)		
SUPPORTING FACI	LITIES						1,408		
UTILITIES				LS			(400)		
SITE IMPROVEME	NTS			LS			(650)		
PAVEMENTS				LS			(200)		
UTILITIES CONN	ECTION	FEE (ELECTRIC)		LS			(36)		
AT/FP PASSIVE	MEASUR	ES		LS			(72)		
COMMUNICATION				LS			(50)		
SUBTOTAL							8,716		
CONTINGENCY	(5.0%))					436		
TOTAL CONTRACT (COST						9,152		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				522		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)				349		
TOTAL REQUEST							10,022		
TOTAL REQUEST (1	ROUNDE	D)					10,000		
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				25		
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ct canopie	es at the e	xisting		
north and sout	h gat	es traffic lanes ((inbound a	nd ou	tbound) ut	ilizing co	nventional		
design and con	struc	tion methods to ac	commodate	the	mission of	the facil	ity. The		
standards In	.a be addit	compatible with ap	plicable	DOD, netru	Air Force,	, and base (design 11 be used		
where cost eff	ectiv	re. The facility w	vill be de	signe	d as perma	anent const:	ruction in		
accordance wit	h Uni	fied Facilities Cr	riteria (U	FC) 1	-200-01.	Enhance th	e entry		
roads with pas	sive	anti-terrorism/for	rce protec	tion	(AT/FP) me	easures, ro	adway		
delineation, r	oadwa	y pull-off/search	areas, si	gnage	, POV insp	ection fac	ilities, POV		
inspection bay	rs and	l occupant shelters	s, site im	prove	ments, lar	ndscaping, a	and all		
terrorism/forc	e pro	tection requirement	nts per UF	C 4-0	10-01.	JOD ANCI-			
11. Requirement	11. Requirement: 2 EA Adequate: 0 EA Substandard: 2 EA								
PROJECT: Cons	PROJECT: Construct front gates force protection enhancements (Current Mission)								
REQUIREMENT:	Base	entry control requ	uirements	have	become mor	re stringen	t from the		
heightened sec	urity	environment broug	ht about	by te	rrorist at	tacks on t	he United		
States at home	hand	abroad Thig pro-	iegt provi	doc f	or a physic	cal line o	f a "defende		

States at home and abroad. This project provides for a physical line of a "defense in depth" strategy and is in accordance with the United States Air Force Academy's

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Previous editions are obsolete.

1. COMPONENT		FY 2016 MILITARY CONSTRUCTION PROJECT DATA									
AIR FORCE		(computer generated)									
3. INSTALLATION	, SITE AN	D LOCATION		4. PROJECT TITLE	1						
USAF ACADEMY		FRONT GATES FORCE PROTECTION ENHANCEME									
USAF ACADEMY	SITE # 1										
COLORADO											
5. PROGRAM ELEM	ENT 6.	CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)					
86076		730-837 3368/X0PZ094013 10.000									
00070		,50 057				,,					

(USAFA's) anti-terrorism/force protection (AT/FP) plan. USAFA must provide greater force protection to improve life, safety and health conditions of USAFA personnel. The USAFA's open base policy requires a balance between maintaining an open base posture while providing protection to base populace with almost a million tourists annually touring the #1 tourist attraction in the state of Colorado. Security Forces Squadron (SFS) personnel conduct checks of all visitor vehicles entering the installation at both gate locations. Visitors are allowed on base with a valid There are times when checks require visitors to exit their driver's license. vehicles and SFS personnel search the interiors of vehicles. These canopies and POV inspection facilities will protect visitors and SFS personnel from harsh/ unpredictable weather of Colorado. The project will provide extended curbs, boulders, rock lined ditches and landscaping along the sides of entrance gates to prevent vehicles from driving around gates. This project will delineate a crisp/clean roadway edge, improve shoulders and screen parking at Santa Fe Trail/Pass and Identification.

<u>CURRENT SITUATION:</u> The US Air Force Academy was closed to visitors on 11 September 2001. On 1 October 2006, the US Air Force Academy Superintendent opened USAFA to visitors through the north and south entry gates from 0800-1800, 365 days a year. Visitors need a valid driver's license to gain access to USAFA. USAFA is a potential target for terrorist activity, since USAFA showcases the US Air Force and the United States of America. In 2005 and 2008, the Air Force Vulnerability Assessment (AFVA) found USAFA deficient, since there are no protective covers over the installation entrance gates. Weather conditions require a canopy over entrance gates to allow SFS personnel to conduct search and entry control procedures in a controlled/protected environment. The main gates do not adequately meet current Air Force standards as defined in the Air Force Installation Entry Control Facilities Design Guide. Three areas contributing to the poor image of the US Air Force gate canopies for visitor/vehicle searches in a protected environment), lack of delineation of the entry approach and lack of visual cueing/poor signage.

IMPACT IF NOT PROVIDED: Security Forces Squadron personnel will continue to perform vehicle search operations under adverse/risky conditions from traffic during side-of-the-road searches. Without this construction, personal vehicles will not be searched adequately, since the inclement weather will rush security forces personnel through the search of vehicle procedures. Lack of adequate greeting and searching of commercial and visitor vehicles will place the entire base populace and visitors in jeopardy. USAFA will continue to be written up by Air Force Vulnerability Assessment inspectors for not having a protective cover over our installation gates or passive containment along the roadside. The poor appearance of the US Air Force Academy entrance gates will continue to deter potential visitors to come and see the story of the US Air Force Academy and the US Air Force.

1. COMPONENT		FY 2016 MILIT	ГА	2. DATE					
AIR FORCE		(c							
3. INSTALLATION	, SITE	AND LOCATION							
USAF ACADEMY		E PROTECTION E	NHANCEMENTS						
USAFACADEMY	SITE	# 1							
COLORADO									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)			
86076		730-837	3368	/XQPZ094013	10	,000			

ADDITIONAL: This project has been sited according to the USAFA Entry Gate Area Development Plan. This project meets the criteria and scope specified in Air Force Manual 32-1084, "Facility Requirements." Space requirements are determined from the Entry Control Facilities Design Guide (18 February 2003). Comply with DODI 5200.08, change 2, effective April 8, 2014, "Security of DOD Installations and Resources and the DOD physical Security Review Board". All options were considered during the development of this project. New construction was the only option to meet the Antiterrorism/Force Protection requirements of the installation. Sustainable principles will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02. Base Civil Engineer phone: (commercial) (719) 333-2660.

JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components. However, all tenants on this installation are benefitted by this project.

1. COMPONENT AIR FORCE		FY 2016 MILITARY (comp	CONSTR uter ge	UCTION PROJ	ECT DATA	2	2. DATE
3. INSTALLATIO USAF ACADEMY U S A F ACADE COLORADO	on and i My site	OCATION # 1		4. PROJECT FRONT GATE ENHANCEMEN	TITLE S FORCE PROTECT TS	ION	
5. PROGRAM EL	EMENT	6. CATEGORY COD	E 7. P	ROJECT NUMB	ER 8. PROJECT	COST	(\$000)
86076		730-837	336	8/XQPZ09401	.3 1	0,00	0
12. SUPPLEMEN	TAL DAT	A:					
a. Estimate	d Design	n Data:					
(1) Projec	ct to be	accomplished by	design-	build proce	dures		
(2) Basis (a) St (b) Wh	: andard o ere Des:	or Definitive Des ign Was Most Recen	lgn - htly Use	ed -			NO
(3) All O	ther Des	ign Costs					400
(4) Const	ruction	Contract Award				16	FEB
(5) Const	ruction	Start				16	APR
(6) Const	ruction	Completion				17	AUG
(7) Energ	y Study/	Life-Cycle analys	is was/	will be per	formed		YES
b. Equipmen	t associ	lated with this pr	OCURING	provided fro F: APPRC AF	om other approp ISCAL YEAR PPROPRIATED	riat:	ions: COST
EQUIPMENT	NOMENC	LATURE		OF	REQUESTED		(\$000)
UNINTERRU	JTIBLE P	OWER SUPPLY	340	0	2017		25

1. COMPONENT AIR FORCE		F	Y 2016 M	ILITARY	CONSTR	UCTION F	PROGRAI	M	2. DATE	
INSTALLATION AND CAPE CANAVERAL FLORIDA	D LOCATIO AIR FOR	ON CE STATI	ON	COMMAND:5. AREA CONSTAIR FORCE SPACECOST INDEXCOMMAND0.92						
6. Personnel	PEF	RMANENT		STU	DENTS		SUF	PORTED		
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 Sep 14	114	160	1416	0	0	0	72	170	1316	3,248
 END FY 2019 7. INVENTORY DA a. Total Acreage: b. Inventory Total as c. Authorization Not ¹ d. Authorization Req e. Planned in Next Fi f. Remaining Deficient g. Grand Total: 8. PROJECTS REQ 	114 TA (\$000) 16,239 of : (30 S Yet in Inve uested in f our Years ncy: UESTED	160 Sep 14) entory: this Program: Program: IN THIS F	1411 am: (FY20 PROGRAM	<u>0</u> 016) Л:	0	0	(FY 2016)	1316	3,243 793,399 0 21,000 0 210,500 1,024,899
CATEGORY <u>CODE</u> 131-111 9a. Future Projects:	PROJEC Range Co Typical P	<u>T TITLE</u> ommunica Planned No	tions Faci	lity ′ears:		SCOPE 3,216 TOTAL	SM	COST <u>\$,000</u> 21,000 21,000	DESIGN <u>START</u> Design Bu	STATUS <u>CMPL</u> uild
	NONE					TOTAL		0		
9c. Real Property M	aintenanc	e Backlog	This Insta	allation (\$	M)					103.6
10. Mission or Major Functions: The 45th Space Wing provides mission-ready forces for the 14th Air Force and the U.S. Strategic command to safely execute and maintain spacelift operations and operate, maintain, and secure the Eastern Range. It supports ballistic missile test launches, aircraft tests, and other ballistic munitions evaluations. It also supports civil spacelift operations, commercial spacelift operations licensed by the Federal Aviation Administration, and other space launch activities in accordance with National Space Policy and with the provision of public law.										
 Outstanding poll a. Air pollution 	ution and	Safety (O	SHA) Def	iciencies:				0		
b. Water Pollutic	n							0		
c. Occupational	Safety and	d Health						0		
d. Other Environ	mental							0		

1. COMPONENT		FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. D							
AIR FORCE		(c	omputer ger	nerate	d)				
3. INSTALLATION PATRICK AIR FOR CAPE CANAVERAL	, SITE CE BAS AIR FO	: AND LOCATION SE NCCE STATION SITE # 1	L	4. PROJECT TITLE RANGE COMMUNICATIONS FACILITY					
FLORIDA		1	1						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
31476		131-111	1555	/DBEH0	63000		21,000		
		9. C	OST ESTIMA	ATES					
		ттем		TT /M	OUDNETEN	UNIT	COST		
		LIEM		0/M	QUANTITY		(\$000)		
PRIMARY FACILIT	IES						12,847		
RANGE COMMUNIC	ATIONS	FACILITY (131-111)		SM	3,216	3,825	(12,301)		
ANTENNA TOWER	(131-1	16)		LS			(250)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(296)		
SUPPORTING FACIN	LITIES						5,403		
UTILITIES				LS			(1,323)		
PAVEMENTS				LS			(800)		
SITE IMPROVEME	NTS			LS			(600)		
COMMUNICATIONS				LS			(1,400)		
DEMOLITION				SM 1,656 280			(464)		
DIESEL GENERAT	OR			LS			(256)		
ENVIRONMENTAL	ABATEM	ENT		LS			(560)		
SUBTOTAL							18,250		
CONTINGENCY	(5.0%))					912		
TOTAL CONTRACT	COST						19,162		
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				1,092		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF 5	SUBTOTAL)				730		
TOTAL REQUEST							20,985		
TOTAL REQUEST (1	TOTAL REQUEST (ROUNDED)						21,000)		
EQUIPMENT FROM (QUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(134,000		
10. Descripti conventional d	on of lesign	Proposed Construction	ction: Co methods t	nstru o acc	ct facilit commodate t	y utilizing the mission	of the		

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. Facility will be designed as a permanent construction in accordance with Unified Facilities Criteria (UFC) 1-200-01. Facility includes a Very Early Smoke Detection Apparatus (VESDA) system and clean agent fire suppression system in accordance with ETL 01-18, security system, pavements, site work, and utilities. A 20 - foot square base, laced leg, selfsupporting, 150 foot high microwave tower including aircraft warning, working platform antenna mounting, associated conduits and cable trays. Adequately sized diesel generator, signal and power filters. An above ground vaulted fuel tank is required for this project. Demolish 1,656 SM of facilities which occupies the space where the new facility will be constructed. The existing comm facility will be demolished using O&M fund after the new facility is operational. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 140 Tons

11.	Requirement:	3216	SM	Adequate:	0	SM	Substandard:	4872	SM	
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1. COMPONENT AIR FORCE

 3. INSTALLATION, SITE AND LOCATION
 4. PROJECT TITLE

 PATRICK AIR FORCE BASE
 RANGE COMMUNICATIONS FACILITY

 CAPE CANAVERAL AIR FORCE STATION SITE # 1
 RANGE COMMUNICATIONS FACILITY

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

 31476
 131-111
 1555/DBEH063000
 21,000

<u>PROJECT:</u> Construct a Range Communications Facility. (Current Mission)

<u>REQUIREMENT:</u> Construct a new, state of the art, multi-level facility to accommodate modern communications equipment. The facility will provide direct operational launch support as well as support to squadron administration, maintenance, and other operations functions. The new Range Communications Facility will be rated to withstand a Category 3 hurricane.

CURRENT SITUATION: The current mission critical facility houses major systems: Core sonnet rings, Combat Information Transport System/45th Space Wing Local Area Network (LAN) sonnet ring, microwave systems, Digital Range Communications System switches, Range Tandem switches, Video switches and distribution, Integrated Digital Network Exchange/Defense Information Systems Agency (IDNX/DISA) nodes, Public Announcement (PA)/Aural warning, Nortel Base Information Data distribution system (BIDDS) Telephone switch and numerous other systems. Facility 1641 was built in 1957; since 1970 there have been seven additions to the facility, expanding the original 351 SM to its present 3,216 SM. The facility is cooled and humiditycontrolled by 11 separate air conditioning units within the facility, a situation that is both energy-inefficient and costly. A recent engineering evaluation identified structural deficiencies which need to be corrected. The post Tropical Storm Fay evaluation showed multiple foundation cracks, multiple leak points, insufficient sump pump capabilities and chronic long standing leak problems throughout the facility. The existing facility does not meet current AT/FP (Antiterrorism/Force Protection) requirements.

<u>IMPACT IF NOT PROVIDED</u>: The facility will continue to degrade due to the harsh coastal Florida environment and the operations and maintenance costs will continue to increase. Facility failure will directly impact eastern range launch operations. <u>ADDITIONAL</u>: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". 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. Sustainable principles, to include life cycle cost effective practices will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02. Base Civil Engineer phone: (commercial) (321) 494-4041. Range Communications Facility: 3,216 SM = 34,623 SF.

JOINT USE CERTIFICATION: This is an installation utility/infrastructure project, and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.

DD FORM 1391, DEC 99

1. COMPONENT AIR FORCE		FY 2016 MILITA	ARY CONSTR	UCTION PROJEC	T DATA	2. DATE
2 TNGMALLAME			Jo			
3. INSTALLATI	ON AND I	JOCATION		4. PROJECT 1	TTFE	
PATRICK AIR F	ORCE BAS	SE	mm # 1	RANGE COMMUN	ICATIONS FACIL	ITY
FLORIDA	L AIR FC	DRCE STATION SI	16 # 1			
5. PROGRAM EL	EMENT	6. CATEGORY			8. PROJECT CO)ST (\$000)
31476		131-111	155	5/DBEH063000	21	.000
		101 111	195	5,22211005000		
12. SUPPLEMEN	ITAL DAT.	A:				
a. Estimate	d Design	n Data:				
(1) Proje	ct to be	accomplished 1	by design-	build procedu	res	
(2) Basis	: andard	or Definitive T	Design -			NO
(b) Wh	here Des	ign Was Most Re	ecently Us	ed -		
(3) All O	ther Des	sign Costs				840
(4) Const	ruction	Contract Award				16 FEB
(5) Const	ruction	Start				16 MAR
(6) Const	ruction	Completion				17 NOV
(7) Energ	y Study/	Life-Cycle ana	lysis was/	will be perfo	ormed	YES
b. Equipmen	t assoc	iated with this	project p	provided from	other appropri	ations:
			PROCURTNO	FIS	CAL YEAR	COST
EQUIPMENI	NOMENC	LATURE	FROCORING	OR 1	REQUESTED	(\$000)
COMMUNICZ	ATIONS E	QUIPMENT	308	0	2017	32,000
COMMUNIC	ATIONS E	QUIPMENT	308	0	2018	56,000
COMMUNIC	ATIONS E	QUIPMENT	308	0	2019	21,000
COMMUNICZ	ATIONS E	QUIPMENT	308	0	2020	25,000

1. COMPONENT	ONENT FY 2016 MILITARY CONSTRUCTION					UCTION F	N PROGRAM 2. DATE			
									CONCT	
		ATION				יחיבי		5. AKEA		
	BASE					RIEL			DEX	
							QUE			
6. Personner										τοται
	719		2 971	UFF	EINL	CIV		129	627	101AL 8 501
	710	2,000	3,071				494	1000	652	9 350
7 INVENTORY DA	TA (\$000)	2,000	5,051		<u> </u>	i I	101	1000	002	3,000
a. Total Acreage:	449.428									
b. Inventory Total as	s of : (30	Sep 14)								3.407,887
c. Authorization Not	Yet in Inv	ventory:								26,846
d. Authorization Red	uested in	this Prog	ram: (FY2	2016)						8,700
e. Planned in Next Four Year Program:										116,100
f. Remaining Deficiency:										361,500
g. Grand Total:										3,921,033
• 										-
8. PROJECTS REQ	UESTED	IN THIS F	PROGRA	M:		(FY 2016))			
CATEGORY								COST	DESIGN	STATUS
CODE	PROJEC	<u>T TITLE</u>				<u>SCOPE</u>		\$,000	<u>START</u>	CMPL
610-281	F-35A Cc	onsolidate	d HQ Fac	ility		3,107	SM	8,700		
				•		TOTAL		8,700	•	
9a. Future Projects:	Typical F	Planned In	Next Fou	ur Years:						
316-333	Advanced	d Munition	s Techno	logy Com	plex	7,639	SM	57,000		
721-312	Dormitori	es (288 R	M)			288	RM	31,000		
721-313	F-35A Stu	udent Dor	mitory			7,257	SM	21,000		
722-351	F-35A Te	ch Trainin	ig DFAC /	Addition		1,829	SM	7,100	_	
						TOTAL		116,100		
Ob Pool Property M	laintananc	a Backlor	This Inst	tallation: (ሮ አ / ነ					128.0
10 Mission or Maio	r Function		rimary fu	aliation is to	aivi) Seunnort i	rosearch	davelonm	ont and t	ost and a	r20.3
(DDT&E) of convention		S. ⊑yiiii p	aloctronic	ICTION IS IC	It also pr	estartin, i	aevelopin	eni, anu i adividual i	est and ev	aluation
(RDTAL) of convertion	o baca ic	bometo ti	bo Air Arn	Systems.	ontor (AA)	\cap o unit (of the air F	Forco Mat	arial Com	anning of mand lt
supporte approximat	10 Dase 13	nuinete un		ing 23rd F	Ellici (777)	og air Com	n un c an i Shat Com	mand 53	·d Mina Δ	ir Comhat
Command	ely 20 ass	sociale un	115, 110100	ing solu i	'Ignier vin	iy ali oon	Ibat Com	manu, Joi	u wing, A	
11 Outstanding poll	lution and	Safaty (C		ficioncios						
a Air pollution	ution and	Salety (C						0		
								0		
b. Water Pollution								0		
c. Occupational Safety and Health								0		
	- ,	-								l
d. Other Environ	nmental							0		

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	OTION	2. DATE				
AIR FORCE	(computer generated)								
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	6	l		
EGLIN AIR FORCE	BASE			F-35A CONSOLIDATED HQ FACILITY					
EGLIN AFB SITE	# 1 (E	GLIN MAIN AND RESERV	/ATION)						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	COST (\$000)			
27597		610-281	1695.	L695/FTFA103902 8,700					
		9. C	OST ESTIMZ	ATES			dog m		
		ITEM		U/M	QUANTITY	UNIT	(\$000)		
PRIMARY FACILITY	r						6,282		
CONSOLIDATED H	EADQUA	RTERS FACILITY		SM	3,107	1,982	(6,159)		
SUSTAINABILITY	& ENE	RGY MEASURES		LS			(123)		
SUPPORTING FACIN	LITIES						1,275		
SITE IMPROVEME	NTS			LS			(299)		
UTILITIES				LS		İ	(380)		
PAVEMENTS				LS			(407)		
COMMUNCATIONS				LS			(126)		
PASSIVE FORCE	PROTEC	TION		LS			(63)		
SUBTOTAL							7,557		
CONTINGENCY	(5.0%))					378		
TOTAL CONTRACT (COST						7,934		
SUPERVISION, IN:	SPECTI	ON AND OVERHEAD	(5.7%)				452		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				302		
TOTAL REQUEST							8,689		
TOTAL REQUEST ()	ROUNDE	D)	\				8,700		
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				869		
10. Descripti	on of	Proposed Construction	split-fac	lti-s ed co	ncrete blo	kler-equipp	ed facility		
and sloped sta	nding	seam metal roof.	Project	provi	des fire d	letection ar	nd		
protection, al	l uti	lities, HVAC, secu	ire commun	- icati	ons, site	improvement	s,		
landscaping, p	arkin	g, and necessary s	support ar	eas.	Facilitie	es will be d	lesigned as		
permanent cons	truct	ion in accordance	with the	DoD U	nified Fac	ilities Cri	teria (UFC)		
1-200-01. Thi	s pro	ject will comply v	with DoD a	ntite	errorism/fo	prce protect	ion		
requirements p	er or								
Air Conditioni	ng:	100 Tons	. 0 GM	Suba	tandard. 2	1020 GM			
		alidated Headquare	s. V SM	1:	(Now Mis				
PROJECT: F-33		solidated headquar	rters faci	11LY.	is require	d to suppor	t the		
beddown of the	Join	t Strike Fighter ((JSF) F-35	A air	craft at H	a to suppor Iglin AFB.	The		
facility is re	quire	d to house and sur	pport the	comma	nd section	ns of the 33	Srd FW, 33rd		
OG, and 33rd M	OG, and 33rd MXG. The facility will also consolidate those unique wing and group								
staff function	staff functions into a single facility. This facility will serve as the focal								
point for the	oint for the leadership functions of the 33rd FW training mission that consists of								
three US milit	ary s	ervices and the mi	Llitary se	rvice	s of 8 par	ther countr	les, as		
States and var	ie nos	allied countries	This fac	ry an ili+v	will prov	us from the	e area for		
the 33rd FW le	aders	hip functions and	associate	d win	g/staff fu	inctions and	l will		

DD FORM 1391, DEC 99 Previous editions are obsolete.

Page No.

1. COMPONENT	COMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE		(c	omputer gen	nerated)					
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE					
EGLIN AIR FORCE	BASE			F-35A CONSOLIDAT	ED HQ FACILITY				
EGLIN AFB SITE	# 1 (E	GLIN MAIN AND RESERV	/ATION)						
FLORIDA		·							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	JST (\$000)			
27597		610-281	1695	/FTFA103902	8	,700			
consist of an	admin	istrative area, of	fice spac	e, Special Acce	ss Program s	paces,			
staff/guest to	oilets	s, locker areas, ja	anitor's c	loset and mecha	nical areas.				
CURRENT SITUAT	ION:	The 33rd FW comma	and sectio	ons and wing/sta	ff functions	are			
currently hous	ed in	several different	t faciliti	es throughout t	he 33rd FW a	rea.			
These faciliti	.es ar	e over 50 years ol	ld, in poo	or condition, an	d are not com	nfigured			
properly to ef	ficie	ntly support the 3	33rd FW tr	aining mission	requirements	. A new			
headquarters f	acili	ty would allow cor.	nsolidatio	on of all wing/g	roup function	ns under			
one roof which	woul	d greatly enhance.	communica	tions and impro	ve efficienc;	У•			
IMPACT IF NOT	PROVI	DED: The 33rd Fig	ghter Wing	's command, adm	inistrative,				
operations, ma	inten	ance, and training	y missions	will continue	to function	in			
numerous and m	argin	al facilities. Wi	ithout thi	s facility, the	F-35A beddo	wn at			
Eglin cannot b	e eff	ectively and effic	ciently im	plemented. Thi	s will signi:	ficantly			
impact the tra	ining	f mission required	to suppor	t the F-35 prog	ram.				
ADDITIONAL: 1	'he cr	iteria/scope for t	this proje	ct is contained	in AFH 32-1	084,			
"Facility Requ	lireme	nts". A prelimina	ary analys	is of reasonabl	e options wa	s			
accomplished o	ompar	ing alternatives o	or status	quo, renovation	, addition/a	lteration,			
requirements i	g new	Construction B	cause of	this a full eq	onomic analy	rig wag			
not performed.		ertificate of exce	ecause of potion was	prepared. Sus	tainable pri	nciples.			
to include lif	ie cvc	le cost effective	practices	, will be integ	rated into t	he design,			
development, a	nd co	onstruction of the	- project i	n accordance wi	th UFC 1-200	-02, dated			
1 March 2013.	Base	Civil Engineer: I	OSN 872-28	76 (ext. 200).	Consolidate	d			
Headquarters H	acili	ty: 3,107 SM = 33,	,426 SF.						
JOINT USE CERT	IFICA	TION: This facilit	ty can be	used by other c	omponents on	an "as			
available" bas	sis; h	owever, the scope	of the pr	oject is based	on Air Force				
requirements.									

	1							
1. COMPONENT		FY 2016 MILITARY	CONSTRU	JCTION P	ROJECT	DATA	2	2. DATE
AIR FORCE		(compu	ter ger	lerated)				
3. INSTALLATI	ON AND L	OCATION		4. PROJ	JECT TI	TLE		
EGLIN AIR FOR	CE BASE	CI.TN MATN AND		F-35A (CONSOLI	DATED HQ FA	CILIJ	ſΥ
RESERVATION)	5 - 1 (5	GUIN MAIN AND						
FLORIDA								
5. PROGRAM EI	EMENT	6. CATEGORY CODE	7. PF	OJECT N	IUMBER	8. PROJECT	COSI	(\$000)
27597		610-281	169	5/FTFA1(03902		8,70	0
12. SUPPLEMEN	TAL DAT	A:						
a. Estimate	ed Design	1 Data:						
(1) Proje	ct to be	accomplished by d	lesign-1	ouild pr	rocedur	es		
(2) Basis	:							
(a) St	andard o	or Definitive Desig	gn -	4				NO
(d) MI	ther Des	ian Goata	ciy Use	u -				240
(3) All 0	rugtion	Contract Award					16	570
(F) Const	ruction	Start					16	
(5) Construction Start								GED
(0) COIISC	rucción	compreción					1,	DEF
EQUIPMEN	NOMENC	PRC	OCURING	APPRC	APPRO OR RE	PRIATED QUESTED		COST (\$000
COMMUNIC	ATIONS E	QUIPMENT	3400)	2	2017		261
FURNISHI	NGS		3400	D	2	2017		608

1. COMPONENT AIR FORCE		F	Y 2016 M	MILITARY CONSTRUCTION PROGRAM 2. DATE						
INSTALLATION AND	D LOCATI	ON		COMMAN	ND:			5. AREA	CONST	
HURLBURT FIELD				AIR FOR	CE SPEC	IAL		COST IN	DEX	
FLORIDA				OPERAT	IONS CO	0.86				
6. Personnel	PEF	RMANENT	-	STU	DENTS		SUF	PORTED		
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 Sep 14	1,284	4,883	1868	0	0	0	200	966	437	9,638
	1,284	5,021	1859	0	0	0	188	958	444	9,754
7. INVENTORY DA	IA (\$000)									
Total Acreage:	6,634	. 1 1)								026 744
Inventory Total as of	: (30 Sep	0 14) or <i>u</i>								936,711
Authorization Not Ye	t in invent	ory. Drogrom	· (EV201)	2)						32,950
Plannod in Novt Fou	steu in this r Voor Dro	s Plogram	I. (F12010)						14,200
Remaining Deficienc		iyiani.								000.83
Grand Total	y.								-	1 051 861
Grand Total.										1,001,001
8 PROJECTS REQ	UESTED	IN THIS F	ROGRA	٨·		(FY2016)				
CATEGORY	020120					(0 . 0)		COST	DESIGN	STATUS
CODE	PROJEC	T TITI F				SCOPE		\$ 000	START	CMPI
141-456	Add to 39	IOS Faci	itv			3.385	SM	14.200	Mar-14	Aug-15
			,			TOTAL	•	14.200	-	
								,		
9a. Future Projects:	Typical P	lanned No	ext Four \	ears:						
	NONE					TOTAL		0		
9b. REAL PROPER	TY MAINT	ENANCE	BACKLC	G THIS II	NSTALLA	TION: (\$N	Л)			120
10. MISSION OR M	AJOR FUI	NCTIONS	: Headou	arters Air	Force Spe	ecial Oper	, ations Co	mmand: a	Special C	Derations
Wing (SOW) with AC	C-130. MC	-130. MH-	53. CV-2	2. Non-Sta	andard Av	iation (NS	SA), and A	viation Fo	preign Affa	irs Special
Operations Squadror	ns (SOS):	Air Force	Special C	perations	School; a	a Special	Tactics G	roup (STC	G): Air Ford	e
Command and Conti	rol Trainin	g & Innova	ation Grou	ıp; a RED	HORSE	squadron;	and the	Air Force (Combat W	eather
Center.		0		• *		•				
11. OUTSTANDING	POLLUT	ION AND	SAFETY	(OSHA) D	EFICIEN	CIES:				
a. Air pollution								0		
b Water Pollutio	n							0		
								Ū		
c. Occupational	Safety and	d Health						0		
d. Other Environ	mental							0		

1. COMPONENT		FY 2016 MILI	ITARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE		
AIR FORCE			(computer gen	erate	d)				
3. INSTALLATION	, SITI	E AND LOCATION		4. PF	OJECT TITL	E			
HURLBURT FIELD HURLBURT FIELD FLORIDA	SITE :	# 1		ADD T	O 39 IOS F1	ACILITY			
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PI	ROJECI	NUMBER	8. PROJECT C	OST (\$000)		
31476		141-456	1693/1	TEV12	3007	1	4,200		
		9.	COST ESTIMA	TES	T	1			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)		
PRIMARY FACILIT	ES						11,570		
ADD TO 39 IOS	FACILI	ITY		SM	3,385	3,350	(11,340)		
SUSTAINABILITY	AND B	ENERGY MEASURES		LS			(230)		
SUPPORTING FACII	LITIES	1					1,285		
UTILITIES				LS			(400)		
PAVEMENTS				LS			(325)		
SITE IMPROVEME	NTS			LS			(230)		
STORM DRAINAGE				LS			(130)		
PASSIVE FORCE	PROTEC	CTION MEASURES		LS			(80)		
COMMUNICATIONS				LS			(120)		
SUBTOTAL							12,855		
CONTINGENCY	5) יוויייייי	.0%)				-	12 497		
SUPERVISION. IN	SPECTT	ON AND OVERHEAD	(5,7%)				769		
TOTAL REQUEST			(,			-	14,267		
TOTAL REQUEST (F	ROUNDE	D)					14,200		
EQUIPMENT FROM (THER	APPROPRIATIONS (NON	I-ADD)				3,750.0		
10. Descripti	on of	Proposed Constru	uction: Con	nstru	ct an addi	tion to an e	existing 39		
IOS facility u	tiliz	ing conventional	design and	cons	truction m	nethods to ac	commodate		
Information Fa	cilit	y (SCIF), trainir	ng classroon	ns, a	dministrat	ive comparts	special		
purpose labs,	infor	mation operations	s, storage,	and a	all necess	sary communic	ations and		
support utilit	ies.	Includes fire al	larm, mass n	notif	ication sy	vstem, parkir	ng, all		
necessary util	ities truct	, and site improv	vements. Fa	acili [.]	ties will nified Fac	be designed	as eria (UEC)		
1-200-01, Gene	ral E	Building Requireme	ents and UF	C 1-2	00-02, Hig	h Performance	e and		
Sustainable Bu	ildin	g Requirements. 1	This project	t wil	l comply w	vith DoD anti	terrorism/		
force protecti	on re	quirements per UI	C 4-010-01	•					
Air Conditioni	ng:	80 Tons	1020 GW	C1	hatandand	0 614			
PROJECT: Addi	t: 53	to 39th Informat:	ion Operatio	su on Sq	uadron (IC) S) Facility.	(New		
Mission)			_	_		_			
REQUIREMENT:	REQUIREMENT: An energy-efficient, properly configured operations and training								
facility to ex	ecute	all 39 IOS exist	ing cybers cements in a	pace i	mission re	sponsibiliti Cyber Missic	es in Forces		
(CMF) initiati	CMF) initiative. The new facility is required to ensure CMF personnel are								
prepared to ex	ecute	cyberspace roles	s and respon	nsibi	lities as	directed by			
USCYBERCOM. T	he ex	panded and renova	ated facilit	cy is	also nece	essary to pro	vide the		
DD FORM 1391,	DEC 9	9 Previo	ous editions	are	obsolete.		Page No.		

DD FORM 1391, DEC 99

1. COMPONENT AIR FORCE

4. PROJECT TITLE

ADD TO 39 IOS FACILITY

HURLBURT FIELD HURLBURT FIELD SITE # 1 FLORIDA

3. INSTALLATION, SITE AND LOCATION

FLORIDA			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
31476	141-456	1693/FTEV123007	14,200

39 IOS personnel with a facility conducive to proper administration, information operations, and special purpose labs.

CURRENT SITUATION: The existing facility does not have adequate space for operations and training of required Information Operations (IO), Influence Operations (IFO), and Cyber staff and students or to store/stage Command, Control, Communications, Computers and Information (C4I) systems to support CMF. There are no adequate facilities on base that could be used or converted to satisfy this requirement. Off-base storage has been rented for nine years to accommodate non-C4I storage requirement. CMF personnel were expected to be trained and operational starting in FY14 making this expanded facility late to need. IMPACT IF NOT PROVIDED: Without this project, CMF training shortfalls could impede or delay fielding cyberspace weapons systems as required by USCYBERCOM. The untimely implementation of state-of-the-art offensive (e.g., Network Attack System (NAS)) and defensive (e.g., Cyberspace Vulnerability Assessment (CVA)/Hunter, Air Force Cyberspace Defense (ACD)) weapons systems, may drive significant strategic, operational and tactical risks given that hostile activities targeting the U.S. in cyberspace are on-going and growing in frequency, sophistication and effectiveness.

Student and staff growth will be restricted by space availability, therefore course expansion and subject improvement will be limited. Interim work around is to throttle student throughput, instructor shifts, duel occupancy work centers and mobile training teams. The Cyber Forces Concept of Operations and Employment (CFCOE) requires that services conduct individual and collective training for CMF work roles after FY15. Without these facility improvements, there will be a severe shortage in training allocations for the Intermediate Network Warfare Training (INWT) and CVA/Hunter courses and AFSPC will not be able train enough cyber operators to meet AF and CMF requirements. The INWT deficit is FY15 = 66, FY16 = 247 and FY17 = 165. The CVA/Hunter deficit is FY15 =99, FY16 = 238 and FY17 = 192. ADDITIONAL: This project meets applicable criteria/scope specified in AFMAN 32-1084, "Facility Requirements." An Economic Analysis has been accomplished which supports the addition to the existing 39 IOS facility. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02. Base Civil Engineer phone: 850-884-7701.

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.

Previous editions are obsolete.

1. COMPONENT		FY 2016 MILITARY	CONSTRUC	TION PROJECT	DATA	2. DATE			
AIR FORCE (computer generated)									
3. INSTALLATI	ON AND I	OCATION		4. PROJECT	TITLE				
HURLBURT FIEL	D			ADD TO 39 I	OS FACILITY				
HURLBURT FIEL	D SITE #	1							
FLORIDA			1		1				
5. PROGRAM EL	EMENT	6. CATEGORY COD	3 7. PRC	JECT NUMBER	8. PROJECT CC	ST (\$000)			
31476		141-456	1693	/FTEV123007	14,	200			
12. SUPPLEMEN	TAL DATA	A:							
a. Estimate	d Design	n Data:							
(1) Status:									
(a) Date Design Started 20-MAR-14									
(b) Parametric Cost Estimates used to develop costs YES									
* (c) Pe	rcent Co	omplete as of 01 J	AN 2015			35 %			
* (d) Da	te 35% 1	Designed			29	-AUG-14			
(e) Da	te Desig	gn Complete			31	-AUG-15			
(f) En	ergy Stu	udy/Life-Cycle ana	lysis wa	s/will be per	formed	YES			
(2) Basis	:								
(a) St	andard o	or Definitive Desi	gn -			NO			
(b) Wh	ere Des:	ign Was Most Recen	tly Used	-					
(3) Total	Cost ((a) = (a) + (b) or	(d) + (e):		(\$000)			
(a) Pr	oduction	n of Plans and Spe	cificati	ons		852			
(b) Al	1 Other	Design Costs				426			
(c) To	tal	-				1,278			
(d) Co	ntract					895			
(e) In	-house					383			
(4) Const	ruction	Contract Award				16 JAN			
(5) Const	ruction	Start				16 MAR			
(6) Const	ruction	Completion				17 AUG			
* Indicat	es comp	letion of Project	Definiti	on with Param	netric Cost Es	timate			
which i	s compai	able to tradition	al 35% d	esign to ensu	re valid scop	e,			
cost an	d execut	ability.							
b. Equipmen	t assoc:	iated with this pr	oject pr	ovided from o	other appropri	ations:			
				RTOO	AT. VEAD				
EQUIPMEN	r nomenc	LATURE A	PROCURII PPROPRIA	IG APPRO	AL YEAR OPRIATED SQUESTED	COST (\$000)			
C4I EQUII	PMENT		3400	2	2017	2,000			
PREWIRED	2017	1,000							
COMMUNICA	2017	750							
				-		*			
1									

1. COMPONENT AIR FORCE		F	Y 2016 M	ILITARY	CONSTR		PROGRA	Μ	2. DATE	
INSTALLATION AND	D LOCATI	ON		COMMAN	ND:			5. AREA	CONST	
JB PEARL HARBOR	R HICKAM			PACIFIC	AIR FOR	CES		COST IN	DEX	
HAWAII								2.08		
6. Personnel	PEF	RMANENT		STU	IDENTS		SUP	PPORTED)	
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	1,085	4,338	1,100	0	0	0	0	0	0	6,523
END FY 2019	1,019	4,077	1,042	0	0	0	0	0	0	6,138
7. INVENTORY DA	TA (\$000)									
a. Total Acreage:	3,002									
b. Inventory Total as	s of : (30	Sep 14)								578,502
 c. Authorization Not 	Yet in Inv	entory:								10,122
d. Authorization Rec	quested in	this Prog	ram: (FY)	2016)						46,000
e. Planned in Next F	our Year	Program:								0
f. Remaining Deficie	ency:									247,100
g. Grand Total:										881,724
8 PROJECTS REO				M·		(FY 2016	;)			
CATEGORY	OLUILD		ROOIM			(1 1 2010	')	COST	DESIGN	STATUS
CODE	PROJEC	Τ ΤΙΤΙ Ε				SCOPE		\$ 000	START	CMPI
141-183	F-22 Figh	iter Alert F	acility			2 855	SM	46 000	Design/B	uild
	· · ·g·		aomy			TOTAL	0.11	46.000		ana
9a. Future Projects:	Typical I	Planned N	lext Four	Years:						
						τοται		0		
	NONE					TOTAL		0		
9b. Real Property M	laintenand	ce Backlog	g This Ins	tallation: ((\$M)					299
10. Mission or Majo	r Function	is: Wing s	upporting	J C-17's (8	and 1 Ba	ack-up), C	-37A (1),	C-40 (1),	KC-135	
(4 remaining falls off	books 20	17) aircra	ft and ho	sting Head	dquarters	, Pacific A	ir Forces	. The insta	allation als	so hosts an
Air National Guard w	ving consi	sting of ar	า F-15A/B	squadror	n, a KC-13	35 air refu	eling squ	adron, and	d a C-130I	H airlift
squadron. Other ma	ajor activit	ties includ	e an Air I	ntelligenc	e Agency	intelligen	ce group	and an Aiı	r Mobility S	Support
group.										
11. Outstanding pol	lution and	Safety (C	OSHA) De	ficiencies	:					
a. Air pollution								0		
b. Water Pollution	on							0		
o Occupational	Safaty an							0		
							0			
d. Other Enviror	nmental							0		
1. COMPONENT		FY 2016 MILIT.	ARY CONSTRU	CTION	PROJECT DAT	ГА	2. DATE			
---	--	----------------------	-------------	-----------------------------	-------------	-------------	-----------------	--	--	
AIR FORCE		(c	omputer gen	erate	d)					
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE						
HICKAM AIR FORC	E BASE	1		F-22 FIGHTER ALERT FACILITY						
HICKAM AFB SITE	# 1									
HAWAII						1				
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)			
27138		141-183	2345,	43004		46,000				
		9. C	OST ESTIMA	TES						
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)			
PRIMARY FACILIT	IES						6,966			
AIRCRAFT ALERT	SHELT	ER (141-183)		SM	2,153	1,520	(3,274)			
ALERT/MAINTENA	NCE CR	EW QUARTERS (141-459)	SM	646	5,179	(3,346)			
ENTRY CONTROL	POINT	(730-837)		SM	56	3,759	(210)			
SUSTAINABILITY	& ENE	RGY MEASURES		LS			(137)			
SUPPORTING FACIN	LITIES						32,873			
UTILITIES				LS			(1,604)			
PAVEMENTS				SM	16,866	481	(8,113)			
SITE IMPROVEME	NTS			LS			(4,456)			
SENTRY ALOHA B	UILDIN	G		SM	470	8,064	(3,790)			
SENTRY ALOHA O	PEN ST	ORAGE		SM	1,840	191	(351)			
HUSH HOUSE PAD				SM	2,673	1,684	(4,500)			
HUSH HOUSE REL	OCATIO	N		EA	1	1,500,000	(1,500)			
DEMOLITION				SM	3,525	257	(905)			
PARKING LOT				SM	2,634	285	(750)			
SOIL REMEDIATION	ON/ARC	H MONITORING		LS	İ		(794)			
COMMUNICATIONS				LM	6,700	907	(6,076)			
COMMISSIONING				LS			(33)			
SUBTOTAL							39,839			
CONTINGENCY	(5.0%))					1,992			
TOTAL CONTRACT (COST						41,831			
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				2,719			
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)				1,594			
TOTAL REQUEST							46,143			
TOTAL REQUEST (1	ROUNDE	D)					46,000)			
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				(450			
10. Descripti	on of	Proposed Construc	tion: Ex	cavat	ion, backf	ill, gradi	ng, concrete			
footing and sp	ecial	foundations, stru	ctural st	eel f	rame roofi	ng system,	aircrew and			
maintenance pe	rsonn	el quarters, alert	aircraft	shel	ter, fire	detection/	suppression			
protection, ex	protection, explosive proof environment maintenance area, emergency generator									
support, suppo	support, supporting aircraft ramps and taxiway pavements, and all necessary									
necessarv fend	necessary fencing/detection to secure the area. Relocation of Aloha Sentry mission									
and hush house from development area, archaeological monitoring, asbestos abatement										
and contaminat	ed so	il remediation. Ut	ilize eco	nomic	al design	and constru	uction			
methods to acc	ommod	ate the mission of	the faci	lity.	The faci	lity should	d be			
compatible wit	h app	licable DoD, Air H	Force, and	base	design st	andards. In	n addition,			

DD FORM 1391, DEC 99

Previous editions are obsolete.

local materials and construction techniques shall be used where cost cover

1. COMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE HICKAM AIR FORCE BASE F-22 FIGHTER ALERT FACILITY HICKAM AFB SITE # 1 HAWAII 5. PROGRAM ELEMENT 7. RPSUID/PROJECT NUMBER 6. CATEGORY CODE PROJECT COST (\$000) 27138 141-183 2345/KNMD043004 46,000 effective. This project demolishes nine facilities at 3,525 SM. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01. Air Conditioning: 50 Tons 11. Requirement: 2855 SM Adequate: 0 SM Substandard: 1475 SM PROJECT: Construct an F-22 Fighter Alert Facility. (New Mission) REQUIREMENT: The beddown of F-22s brings a new mission capability to Hickam, which requires properly sited, adequately constructed, sized and configured aircraft alert facility to provide sufficient aircraft protection, safety of all alert personnel, and for alert aircraft to be airborne within a prescribed time. Alert facility will support up to six aircraft (up to four on alert and two spares). This mission also needs supporting facilities to shelter crews, have maintenance capabilities and provide security. Once new facility is complete, the old facility will be demolished to increase runway safety. New utilities will need to be extended into this area to include a lift station and larger communication ducts to support this operation. HVAC system commissioning is required by UFC 4-030-01 and UFC 3-410-01FA, and will be done by an independent HVAC commissioning authority, who will be involved from the design through the construction and warranty stages of the project, as specified in UFC 4-030-01. CURRENT SITUATION: The existing alert facility was constructed over 50 years ago for F-86 aircraft, before Hickam AFB and Honolulu International Airport (HIA) were combined to use one main runway. The critical demands of the Homeland Defense mission and the age and extreme deterioration of the facility emphasizes the need for a new facility that is properly sited, sized and oriented to meet safety and operational concerns such as weapons orientation, explosive safety and protection of personnel using facility. These issues are compounded by the fact the facility is currently sited in the runway clearzone. Multiple waivers are required to operate at this inadequate site, including waivers for insufficient wing tip clearance, insufficient height clearance, insufficient interline (IL) distance clearance, insufficient intermagazine (IM) distance between explosives mounted on separate aircraft, and no blast walls to mitigate IL non-compliance. Living space for air crews and operations maintenance crews is extremely undersized and completely void of blast protection. The aircraft shelter is not deep enough to protect open cockpits from blown rain. In addition, the existing siting of the alert facility makes meeting aircraft response times impossible. A new site is needed to meet HIA runway clearzone and explosive criteria. This new site plan will relocate the existing hush house out of the explosive area to better secure the area and ensure low-frequency vibrations from it do not activate munitions. In addition, the current Sentry Aloha mission, which currently uses this area, will need to be relocated to better secure the site and to remove a non-related function from the explosive area. This site is located near areas of known weak compressive soil strength and will require special foundations. IMPACT IF NOT PROVIDED: Inadequate facility must continue to be used, adversely impacting safety of civilian population, aircrew, and maintenance personnel as well DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT	FY 2016 MILIT	ARY CONSTRUCTION PROJECT DAT	TA 2. DATE			
AIR FORCE	(c	computer generated)				
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE						
HICKAM AIR FORCE BASE F-22 FIGHTER ALERT FACILITY						
HICKAM AFB SITE	# 1					
HAWAII						
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)			
27138	141-183	2345/KNMD043004	46,000			

as homeland defense alert mission operations and readiness. This will further increase maintenance on F-22 aircraft since the current facility is too small to adequately shelter the aircraft.

ADDITIONAL: This project meets the criteria/scope specified in 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, new construction. Therefore, a complete economic analysis was not performed and a certificate of exception has been prepared. High supporting costs are due to necessary relocation of facilities. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. BASE CIVIL ENGINEER: 808-448-2855. Construct: aircraft alert shelter 2,153 SM = 23,166SF alert/maintenance crew quarters 646 SM = 6,954 SF.

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

1. COMPONENT AIR FORCE		FY 2016 MILITARY (CONSTRU	UCTION PROJEC	T DATA	2. DATE
		OCATION				
UTCENM ATD FOI				F-22 FICUTER		v
HICKAM AIR FO	RCE BASE FE # 1	2		F-22 FIGHIER	ALERI FACILII	Ľ
HAWAII						
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CO)ST (\$000)
27138		141-183	234	5/KNMD043004	46	,000
12. SUPPLEMEN	TAL DAT	A:				
a. Estimate	d Design	n Data:				
(1) Projec	t to be	accomplished by d	esign-1	build procedu	res	
(2) Basis: (a) St (b) Wh	: andard (ere Des:	or Definitive Desig ign Was Most Recent	n - ly Use	ed -		NO
(3) All Ot	her Des	ign Costs				1,840
(4) Constr	ruction	Contract Award				16 FEB
(5) Consti	ruction	Start				16 MAR
(6) Consti	ruction	Completion				18 JUN
(7) Energy	y Study/	Life-Cycle analysi	s was/	will be perfo	rmed	YES
b. Equipmen	t associ	iated with this pro	ject r	provided from	other appropri	ations:
EQUIPMENT	NOMENCI	PRO	CURING	FIS APPRC APPE OR E	CAL YEAR COPRIATED REQUESTED	COST (\$000)
FURNISHIN	IGS		340	0	2017	250
COMM EQUI	PMENT		340	0	2017	200

L

1. COMPONENT AIR FORCE		F	FY 2016 MILITARY CONSTRUCTION PROGRAM 2. DATE					2. DATE		
3. INSTALLATION A MCCONNELL AFB KANSAS	AND LOCA	ATION		4. COMN AIR MOB	MAND: BILITY CO	MMAND	5. AREA COST IN 0.92	CONST		
6. Personnel	PEF	RMANENT	-	STU	DENTS		SUF	PORTED)	
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	367	2498	420	0	0	0	269	1675	474	5,703
END FY 2019	367	2415	414	0	0	0	269	1673	451	5,589
7. INVENTORY DATA (\$000) a. Total Acreage: 3,615 b. Inventory Total as of : (30 Sep 14) 1 c. Authorization Not Yet in Inventory: d. Authorization Requested in this Program: (FY 2016) e. Planned in Next Four Years Program: f. Remaining Deficiency: g. Grand Total: 1									1,525,284 253,480 4,300 18,700 36,100 1,837,864	
8. PROJECTS REQ	UESTED	IN THIS F	PROGRA	M:		(FY 2016)			
CATEGORY								COST	DESIGN	STATUS
CODE	PROJECT	<u>T TITLE</u>				<u>SCOPE</u>		\$,000	<u>START</u>	CMPL
132-133	KC-46A A	DAL Deic	ing Pads			10,424 TOTAL	SM	4,300 4,300	Jun-14	Sep-15
9a. Future Projects:	Typical P	lanned in	Next Fou	ır Years:						
112-211	KC-46A F	Repair Tax	(iwav D			11.677	SM	5.300		
149-962	Air Traffic	Control T	ower			42	VM	11,200		
171-212	KC-46A A	DAL/Fligh	nt Simulat	tor Facility	, Ph 2	1,478	SM	2,200		
						TOTAL		18,700	-	
9b. Real Property M	laintenanc	e Backlog	This Inst	tallation (\$	SM)					49.6
10. Mission or Major Functions: McConnell Air Force Base is the host to the 22nd Air Refueling Wing (ARW) and home to the 184 ARW and 931 ARG. The wing's primary mission is to provide Global Reach by conducting air refueling and airlift when and wherever needed. To do this the wing is charged to develop and maintain the capability to conduct air refueling operations supporting command objectives in any part of the world, in any condition or climate.										
 Outstanding poll a. Air pollution 	lution and	Safety (O	SHA) Def	ficiencies:				0		
b. Water Pollutic	งท							0		
c. Occupational	Safety and	d Health						0		
d. Other Enviror	imental							0		

DD Form 1390, 24 Jul 00

1. COMPONENT		FY 2016 MILI	ITARY CONSTRU	JCTION	PROJECT DA	ТА	2. DATE	
AIR FORCE		((computer ger	nerate	d)			
3. INSTALLATION	, SITI	E AND LOCATION		4. PI	ROJECT TITL	Ξ		
MCCONNELL AIR F	ORCE	BASE		KC-46	5A ADAL DEIC	CING PADS		
MCCONNELL SITE	# 1							
KANSAS		1	1					
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT	COST (\$000)	
41221		132-133	2786/1	PRQE16	4,300			
		<u> </u>	COST ESTIM	1785				
						UNTT	COST	
		ITEM		U/M	QUANTITY		(\$000)	
							0.010	
PRIMARY FACILITI	ES						2,818	
DEICING PADS (2	2)			SM	10,424	265	(2,762)	
SUSTAINABILITY	AND E	ENERGY MEASURES		LS			(55)	
SUPPORTING FACII	ITIES	5					1,095	
SITE IMPROVEMEN	NTS			LS			(325)	
ROAD REPAIRS				LS			(225)	
UTILITIES				LS			(545)	
SUBTOTAL							3,913	
CONTINGENCY	(5	5.0%)					196	
TOTAL CONTRACT C	COST						4,108	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				234	
TOTAL REQUEST							4,342	
TOTAL REQUEST (F	OUNDE	1D)					4,300	
10. Descripti	on of	Proposed Constru	uction: Ad	d to	and alter	existing co	oncrete	
deicing pads w	ith a	sphalt shoulders,	, enlarge e	xisti	ng effluer	t collectio	on and	
storage system	, pun	mps, replace exist	ting taxiwa	y edg	e lights,	include app	propriate	
airfield pavem	ent m	markings and all o	other neces	sary	work for a	complete a	nd usable	
facility. All	work	will comply with	n DoD, AF, a	and S	tate of Ka	nsas polici Facilitias	es and	
designed as pe	rmane	ent construction i	in accordan	anu u ce wi	th the DoL	Unified Fa	will be cilities	
Criteria (UFC	1-200)-01 and UFC 1-200	0-02). Thi	s pro	ject will	comply with	DoD anti-	
terrorism/forc	e pro	tection requireme	ents per un	ified	facilitie	s criteria.	,	
11. Requiremen	t: 10	424 SM Adequat	ce: 0 SM	Subs	tandard: 8	054 SM		
PROJECT: ADA	LЗ е	existing KC-135 De	eicing Pads	to c	reate 2 KG	2-46A capabl	le Deicing	
Pads (New Miss	ion)							
REQUIREMENT:	Two n	new deicing pads p	properly si	zed a	nd configu	red to safe	ly deice	
the KC-46A air	frame	e to meet mission	requiremen	ts an	d required	l environmer	Ital	
compliance dir	ectiv	res of the Base Na	ational Pol	lutan	t Discharg	e Eliminati	on System	
(NPDES) permit	. Th	e three existing	pads will i	be re	configured	l to provide	two new	
aircrafts, and	allo	wing for the deig	ing trucks	to m	aintain th	e required	safety	
zones. The net	w lar	ger pads will cap	pture the e	fflue	nt from th	e larger ai	rframe, and	
the larger con	tainm	ment collection sy	stem will	captu	re the eff	luent/preci	pitation	
required. Are	a inl	ets, junction mar	nholes and o	drain	piping be	neath the t	axiway	
(part of the e	xisti	ng collection sys	stem) will :	remai	n.			
CURRENT SITUAT	ION:	The 3 existing H	C-135 deic	ing p	ads are un	dersized fo	or the KC-	
airframe while	46A and will not effectively capture the effluent run off for the larger KC-46A							
ATTTC MILLE		commenter che requi	Darecy	20116	TOT GETCI	cracko I		

on the pads. The existing holding tank will be undersized to contain the estimated DD FORM 1391, DEC 99

1. COMPONENT	FY 2016 MILI	ТА	2. DATE			
AIR FORCE	((computer generated)				
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE						
MCCONNELL AIR FORCE BASE KC-46A ADAL DEICING PADS						
MCCONNELL SITE #	: 1					
KANSAS						
5. PROGRAM ELEME	NT 6. CATEGORY CODE	7. RPSUID/PI	ROJECT NUMBER	8. PROJECT CC	ST (\$000)	
41221	132-133	2786/1	PRQE165114	4,	300	

effluent and projected precipitation requirements due to the larger size aircraft and pads.

IMPACT IF NOT PROVIDED: Without these facilities, McConnell AFB will not be able to provide simultaneous mission launches under icing conditions. The potential for significant degradation of mission performance and capabilities will be very high. There are no other facilities available to accommodate this requirement to support the new mission.

ADDITIONAL: This project meets the criteria/scope specified by the Air Force Site Activation Task Force Facilities Requirement Plan and applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". An analysis of reasonable alternatives to meet this requirement (status quo, renovation, new construction) was accomplished. The proposed project was determined to be the most effective option. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02 dated 1 March 2013. The Base Civil Engineer: Commercial (316) 759-5750. Category Code (132-133) Equipment Pad: 10,424 SM = 112,200 SF.

JOINT USE CERTIFICATION: This is an installation utility/infrastructure project, and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.

1. COMPONENT		FY 2016 MILITARY C	ONSTRUC	TION PROJECT	DATA	2. DATE
AIR FORCE		(compute	er gene	rated)		
3. INSTALLATIO	ON AND L	OCATION		4. PROJECT	TITLE	
MCCONNELL AIR MCCONNELL SIT KANSAS	FORCE E E # 1	BASE		KC-46A ADAL	DEICING PADS	
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)
41221		132-133	2786/	PRQE165114	4,	300
12. SUPPLEMEN	TAL DATA	A:				
a. Estimate	d Design	n Data:				
(1) Statu (a) Da	s: te Desig	gn Started			18	-FEB-14
(b) Pa	rametrio	c Cost Estimates use	ed to de	evelop costs		
(c) Pe	rcent Co	omplete as of 01 JAN	1 2015			35%
(d) Da	te 35% I	Designed			02	-JAN-15
(e) Da (f) En	erav Sti	n Complete 1dv/Life-Cycle analy	vsis wa	s/will be per	formed	-MAI-15 YES
(=,	- 51 200			, <u></u>		
(2) Basis (a) St (b) Wh	: andard d ere Desi	or Definitive Desigr ign Was Most Recentl	n - Ly Used	-		NO
(3) Total	Cost (a	$r_{1} = (a) + (b) \text{ or } (c)$	1) + (ຄ) •		(\$000)
(3) 100ar (a) Pr	oduction	n of Plans and Speci	ficatio	ons		258
(b) Al	l Other	- Design Costs				129
(c) To	tal					387
(d) Co	ntract					323
(e) In	-house					65
(4) Const	ruction	Contract Award				16 FEB
(5) Const	ruction	Start				16 MAY
(6) Const	ruction	Completion				17 JUL
b. Equipmen N/A	t associ	iated with this pro	ject pro	ovided from o	other appropri	ations:

1. COMPONENT AIR FORCE	ENT FY 2016 MILITARY CONSTRUCTION PROGRAM 2. DATE									
INSTALLATION AND FORT MEADE MARYLAND	D LOCATI	ON		COMMAN US ARM MANAGI	ND: Y INSTAL EMENT C	LATION OMMANE	5. AREA COST IN 1.00	5. AREA CONST COST INDEX 1.00		
6. Personnel	PEF	RMANENT		STU	DENTS		SUF	PPORTED)	
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	273	205	794							1,272
End of FY 2019	330	262	851							1,443
 INVENTORY DA a. Total Acreage: Inventory Total as 	7. INVENTORY DATA (\$000) a. Total Acreage: 5,102 b. Inventory Total as of : (30 Sep 14)									
c. Authorization Not Yet in Inventory:							251,000			
d. Authorization Requested in this Program: (FY2016)							86,000			
e. Planned in Next F	Four Years	s Program								0
 Remaining Deficit Orand Tatals 	ency:								-	0
g. Grand Lotal:										337,000
				4.		(EV 2016	\			
CATEGORY CODE 141-454	TS REQUESTED IN THIS PROGRAM: (FY 2016) COST DESIGN S <u>PROJECT TITLE</u> US Cyber Command JOC, Increment 3 TOTAL COST DESIGN S <u>SCOPE</u> <u>UNIT</u> <u>\$,000</u> <u>86,000</u> Dec-11 TOTAL <u>86,000</u>							STATUS <u>CMPL</u> Sep-13		
9b. Future Projects: CATEGORY	Typical F	Planned No	ext Four ነ	ears:				COST		
CODE	PROJEC	<u>I IIILE</u>						<u>\$,000</u>		
	NONE					TOTAL		0	-	
9c. Real Property M	aintenanc	e Backlog	This Inst	allation \$(000)					N/A
10. Mission or Major protective services ir	10. Mission or Major Functions: Provide base operating support for facilities and infrastructure, quality of life and protective services in support of Department of Defense activities and Federal agencies.									
11. Outstanding pol	lution and	Safety (O	SHA Defi	ciencies:						
a. Air Pollution								0		
b. Water Pollution 0										
c. Occupational Safety and Health 0										
d. Other Enviror	mental							0		

DD Form 1390, 24 Jul 00

1. COMPONENT		FY 2016 MIL:	ITARY CONSTRU	JCTION	PROJECT DA	ТА	2. DATE
AIR FORCE			(computer gen	nerate	d)		
3. INSTALLATION FORT GEORGE G M FORT GEORGE G M MARYLAND	, SITH EADE EADE	E AND LOCATION		4. PR US CY	OJECT TITL	E NT OPERATION:	5 CENTER-INC 3
5. PROGRAM ELEM	TENT	6 CATEGORY CODE		POTECT		8. PROJECT	' COST (\$000)
11830		141-454	5004/	PAYZ13	BO011C	AUTH: 0 APP	R: 86,000
		9.	COST ESTIM	ATES			
						TINTT	COST
		ITEM		U/M	QUANTITY		(\$000)
PRIMARY FACILITI	ES						274,633
JOINT OPERATIO	NS CEN	ITER		SM	22,408	7,850	(175,898)
PARKING STRUCT	JRE			SM	23,488	671	(15,758)
CHILLER PLANT				SM	3,795	14,174	(53,789)
GENERATOR YARD				LS			(25,670)
SUSTAINABLE AND	D ENEF	RGY MEASURES		LS			(3,518)
SUPPORTING FACE	LITIES	3					47,926
SITEWORK, FENC:	ING, F	ROADS		LS			(5,886)
INFRASTRUCTURE	AND C	CABLING		LS			(37,867)
ROAD IMPROVEMEN	NT ANI	ACCESS CONTROL		LS			(4,172)
SUBTOTAL							322,558
CONTINGENCY	(!	5.0%)					16,128
TOTAL CONTRACT	COST						338,686
SUPERVISION, IN	SPECTI	ION AND OVERHEAD	(5.7%)				19,305
TOTAL REQUEST							357,991
TOTAL REQUEST (F	ROUNDE	D)					358,000
EQUIPMENT FROM C	THER	APPROPRIATIONS (NON	-ADD)				70,000.0
10. Descripti	on of	Proposed Constru	ction: Co	nstru	ct a USCYE	BERCOM Join	t Operations
Center (JOC) i	nclud	ling parking struc	ture (800 a	space	s), chille	er plant, g	enerator
yard, and supp	ortin	g facilities. Th	ne JOC will	be b	uilt on th	ne National	Security
Agency (NSA) E	ast C	ampus at Fort Geo	orge G. Mea	de, M	D. The pr	imary faci	lity will be
comprised of a	muit r col	laboration areas	e, operation	ns II	oor/battle	bridge,	iggion
support areas	nrovi	de joint staff of	fices. exe	operative	e offices.	machine r	
storage, labor	atori	es, meeting rooms	, and othe	r sup	port funct	ions. Pro	ject
consists of co	re an	d shell structure	and found	ation	s; elevato	or conveyan	ce systems;
electrical/mec	hanic	al service and di	stribution	comp	onents/sys	stems; fire	protection
alarm/suppress	ion;	information techn	ology infra	astru	cture, com	munication	s, and
security syste	ms su	pport infrastruct	ure. Inte	rior y	will inclu	de raised a	access floor
systems, acous	tical	ly-rated interior	r partition:	s and	ceilings,	power, lie	jhting,
Sensitive Comp	artme	ented Information	Facility (SCIF)	standards	s. Project	includes
redundant prim	ary p	ower, Uninterrupt	able Power	Supp	ly (UPS) s	systems, and	d full
generator back	up ca	pacity to ensure	continuity	of o	perations	24 hours/da	ay, 365
days/year. UP	S and	l generator backur	will be f	ully 1	MILCON fur	ded for bu	ilding
systems and mi	ssion	equipment. This	s project r	equir	es compreh	nensive into	erior
design. Site	infra	structure will in	nclude prima	ary e	lectrical	service to	the site,
telecommunicat	ions	pathways. Perime	eter securi	waler ty com	nstructior	will exten	nd existing
1				-			-

DD FORM 1391, DEC 99

Previous editions are obsolete.

1. COMPONENT		FY 2016 MILI	TARY CONSTRU	JCTION PROJECT DA	TA	2. DATE	
AIR FORCE			(computer ger	nerated)			
3. INSTALLATION,	SITE	AND LOCATION		4. PROJECT TITL	E		
FORT GEORGE G ME	ADE			US CYBERCOM JOIN	NT OPERATIONS C	ENTER-INC 3	
FORT GEORGE G ME. MARYLAND	ADE						
5. PROGRAM ELEME	NT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CO	OST (\$000)	
11830		141-454	5004/1	PAYZ130011C	AUTH: 0 APPR:	86,000	
fence line and	surv	eillance capabili	ities, with	increased vehi	icle control o	capacity.	
Architect-Engin	eer	services will be	required d	uring construct	ion. The JO	C will be	
constructed to	LEED	Silver. Enhance	ad building	commissioning	is required.	Project	
will comply wit	n Do	D Force Protectio	on UFC.				
Air Conditionin	g:	4,000 Tons					
11. Requirement	: 22	408 SM Adequat	:e: 0 SM	Substandard: () SM		
PROJECT: Const infrastructure	ruct	a multi-story Jo a parking structu	oint Operat 1re. (New)	ions Center alo Mission)	ong with suppo	orting	
REQUIREMENT: T	his	facility is requi	ired to prov	vide a critical	l joint operat	cions	
environment nec	essa	ry to support U.S	3. Cyber Co	mmand operation	ns. The goal	is to	
achieve the uni	ty o	f effort required	i to preven	t malicious, co	overt attempts	s to	
interrupt and c	ompr	omise the functio	onal capaci	ty of the DoD r	networks. The	e process	
of monitoring,	iden	tifying, and cour	itering the	se attacks will	l require a		
collaborative e	nvir	onment within whi	while ever	s of all cyber	activities ca	an de Jefengive	
network operation	ons.	This facility w	will incorp	orate new tech	accive, and o pologies and r		
that will gener	ate	beneficial synerc	ies through	h integration a	and collaborat	ion.	
Through an open	wor	k environment that	at incorpora	ates scalable,	reconfigurabl	Le work	
spaces, cyber a	sset	s will be able to	achieve b	oth actual and	virtual colla	aboration	
while maintaini:	ng t	heir functional d	liscipline.	To meet these	e demands in a	a wholly	
independent man	ner	with required lev	vels of capa	acity/reliabili	ity, this fac:	ility will	
be supported by	ind	ependent utility	services fo	or power, cooli	ing and commun	nications.	
In addition, al	l cr	itical infrastruc	ture will :	be constructed	to provide		
redundancy.							
CURRENT SITUATI	ON:	Currently, cyber	activitie:	s in support of	E both the Dol) and the	
nation are cond	ucte	d individually in	1 an NSA-cei	ntric structure	e. Network og	perations	
are prevented i	rom	realizing the ful	li potentia.	noot the collar	orative, cond	esive work	
facilities are	quir bein	a reconfigured at	d suppleme	nted through le	ased space	However	
these efforts a	re l	imited by the ava	ailability (of facilities w	with suitable	100000017	
locations, adeq	uate	AT/FP profiles,	and power	and cooling inf	frastructure of	capable of	
supporting miss	ion	critical activiti	ies.	-		-	
IMPACT IF NOT P	ROVI	DED: If the JOC	is not pro	vided, DoD's c	ritical govern	nment and	
military networ	k as	sets and infrast	ructure wil	l continue to o	operate in a o	dispersed	
isolated manner	wit	h limited levels	of function	nality and secu	urity. Withou	it the	
proposed collab	orat	ive capabilities	of the JOC	, DoD's networl	c operations v	will	
become increasi	ngly	vulnerable to ou	ır adversar	ies. This pro	ject will prov	vide the	
facility suppor	t ne	cessary to assist	: in preven	ting potential.	ly significant	E	
uisruptions and	. int	rusions to DOD'S	critical n	elworks.	.		
ADDITIONAL: NSA will serve as the design and construction manager for this project							
to be sited on NSA'S EXClusive Use Area. The project has been coordinated with the							
all required physical security and anti-terrorism standards. All required and							
anticipated phy	sica	l security and a	ntiterroris	m protection me	easures are in	ncluded.	
An Environmenta	l As	sessment has been	n completed	that leverages	s the complete	ed	
DD FORM 1391, DI	EC 9	9 Previc	ous editions	s are obsolete.	P	age No.	

1. COMPONENT		FY 2016 MIL	TA	2. DATE		
AIR FORCE						
3. INSTALLATION	, SITE AND LOCATION 4. PROJECT TITLE					
FORT GEORGE G M	I GEORGE G MEADE US CYBERCOM JOINT OPERATION					CENTER-INC 3
FORT GEORGE G M	EADE					
MARYLAND						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CO	OST (\$000)
11830		141-454	5004/	PAYZ130011C	AUTH: 0 APPR:	86.000
11050						,

Environmental Impact Study for the NSA campus. Alternative methods of meeting requirements have been explored during the development of this project. The economic analysis determined this project to be the only viable option to satisfy those requirements. Construction estimates include costs associated with construction on a controlled access site, clearances for personnel, labor inefficiencies associated with escort requirements, and other daily processes at NSA. Escorts are required for positive control of access to primary and secondary utilities, which service other critical NSA facilities. Stormwater management to mitigate environmental impact per environmental requirements are included. Facility will be designed to LEED Silver. This project is to be compliant with the current version of NSA's, Facilities Engineering Design Standards (FEDS).

Full authorization of \$358M was provided in FY14 with an appropriation of \$85M. FY15 appropriation was \$166M. FY16 request for appropriation \$86M. USCYBERCOM POC: Director of Logistics (J4), (443) 654-8124.

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

1. COMPONENT AIR FORCE		FY 2016 MILITARY (compu	CONSTRUC	TION PROJECT	DATA	2. DATE	
3 TNSTALLATT		.OCATTON			יידייד פ		
FORT GEORGE G FORT GEORGE G MARYLAND	MEADE MEADE			US CYBERCOM	JOINT OPERATI	ONS CENTER-	
5. PROGRAM EL	EMENT	6. CATEGORY COD	E 7. PRC	JECT NUMBER	8. PROJECT CC	ST (\$000)	
11830		141-454	5004,	/PAYZ130011C	AUTH: 0 APPR:	86,000	
12. SUPPLEMEN	TAL DAT	A:					
a. Estimate	d Design	n Data:					
(1) Statu	.s :	_					
(a) Da	te Desig	gn Started		. .	22	-NOV-11	
(b) Pa	rametri	c Cost Estimates u	sed to d	evelop costs		25.0	
(C) Pe	rcent Co	omplete as of Ul J	AN 2013		17	35% CED 10	
(d) Da	te Deci	n Complete			17	- 5EP - 12 - AUC- 13	
(e) Da (f) En	lergy Sti	dv/Life-Cvcle ana	lvsis wa	s/will be per	rformed	YES	
				2, 20 For			
(2) Basis	:						
(a) St (b) Wh	andard o ere Des:	or Definitive Desi ign Was Most Recen	gn – tly Used	-		NO	
(3) Total	Cost ((a) - (a) + (b) or	(d) + (e).		(\$000)	
(3) IOCAL (a) Pr	oduction	D = (a) + (D) OI	cificati	/·		(\$000) 11,500	
(b) A1	l Other	Design Costs	01110401	0110		3 500	
(c) To	tal	.				15,000	
(d) Co	ntract					13,000	
(e) In	-house					2,000	
(4) Const	ruction	Contract Award				14 MAR	
(5) Const	ruction	Start				14 APR	
(6) Const	ruction	Completion				17 APR	
b. Equipmen	t assoc:	iated with this pr	oject pr	ovided from a	other appropri	ations:	
EQUIPMEN	I NOMENC	LATURE A	PROCURIN PPROPRIA	FISC IG APPRO TION OR RI	AL YEAR)PRIATED EQUESTED	COST (\$000)	
EQUIPMEN	r/securi	TY/IT	3080	:	2016	64,000	
FURNITUR	E/FURNIS	HINGS	3400	:	2016	6,000	

PROJECT SPENDING PLAN FOR INCREMENTALLY FUNDED PROJECT

US Cyber Command Joint Operations Center (JOC), Fort Meade MD

All Costs in Thousands (\$000)



1. COMPONENT AIR FORCE		FY 2016 MILITARY CONSTRUCTION PROGRAM					2. DATE			
3. INSTALLATION A WHITEMAN AFB MISSOURI		ATION		4. COM AIR FOR COMMA	VAND: CE GLOB	AL STRI	KE	5. AREA COST IN 	CONST IDEX	
6. Personnel	PER	MANENT	•	STL	JDENTS		SUF	PORTED)	
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	440	4271	1061	0	6	C	36	169	60	6,043
END FY 2019	440	4270	1061	0	6	C	36	169	60	6,042
 INVENTORY DA⁻ a. Total Acreage: b. Inventory Total as c. Authorization Not d. Authorization Rec f. Planned in Next For g. Remaining Deficient h. Grand Total: 	FA (\$000) 4,948 s of : (30 S Yet in Inve quested in our Years ency:	Sep 14) entory: this Progr Program:	am: (FY2	2016)				<u>.</u>		1,139,846 9,617 29,500 17,100 461,700 1,657,763
3. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016) CATEGORY COST DESIGN <u>CODE</u> <u>PROJECT TITLE</u> 141-753 Consol Stealth Ops & Nuclear Alert Fac 7,357 SM 29,500								STATUS <u>CMPL</u> Oct-15		
9a. Future Projects: 130-142	Typical P Crash/Stro	lanned Ne uctural Fir	e Station	rears:		TOTAL	-	<u>17,100</u> 17,100	-	
9b. Real Property M	aintenance	e Backlog	This Inst	allation:						62
10. Mission or Major	r Functions	s: Bomb \	Ning cons	sisting of I	B-2 aircraf	t; Air Ford	e Reserve	e A-10 airc	craft.	
 Outstanding Pol a. Air pollution b. Water Pollutic 	lution and	Safety (O	SHA Defi	iciencies):				0		
c. Occupational	Safety and	1 Health						0		
d. Other Environ	imental							0		

DD Form 1390, 9 Jul 02

1. COMPONENT		FY 2016 MILI	TARY CONSTRU	CTION	2. DATE			
AIR FORCE		((computer gen	erate	d)			
3. INSTALLATION WHITEMAN AIR FO WHITEMAN SITE # MISSOURI	, SITI RCE BA	E AND LOCATION ASE		4. PF CONSC ALERT	ROJECT TITL PLIDATED ST FACILITY	E EALTH OPERATIO	DNS & NUCLEAR	
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PP	ROJECI	NUMBER	8. PROJECT	COST (\$000)	
27576		141-753	3420/YV	VHG031	.002R2	2	9,500	
		9.	COST ESTIMA	TES				
				TT / M	OTTANETEN	UNIT	COST	
		TIEW		0/M	QUANTITY		(\$000)	
PRIMARY FACILIT	IES						21,636	
AIR OPERATIONS	FACII	JITY (141753)		SM	7,357	2,882	(21,203)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(433)	
SUPPORTING FACII	LITIES			ĺ			4,962	
UTTLITTES				T.S			(2,129)	
SITE IMPROVEME	NTS			LS			(939)	
PAVEMENTS				LS			(519)	
DEMOLITION/ASB	ESTOS	ABATEMENT		SM	7,107	92	(654)	
COMMUNICATIONS	SUPPO	DRT		LS			(321)	
BACKUP GENERAT	OR			LS			(400)	
SUBTOTAL							26,598	
CONTINGENCY	(5	.0%)					1.330	
TOTAL CONTRACT (COST					-	27,928	
SUPERVISION. IN	SPECTT	ON AND OVERHEAD	(5,7%)				1,592	
TOTAL REQUEST			(,			=	29,519	
TOTAL REQUEST (F	ROUNDE	D)					29.500	
EOUIPMENT FROM (OTHER	-, APPROPRIATIONS (NON	I-ADD)				931.0	
10 Descripti	on of	Proposed Constru	iction. Cor	l	dated Stea	lth Operatio	 	
10. Description of Proposed Construction: Consolidated Stealth Operations & Nuclear Alert Facility 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. Facility shall include access roads, parking lots, sidewalks, emergency back-up power, communications support including sensitive compartmental information facility (SCIF) areas, fire detection and suppression, mass-notification, and all other necessary support. Facility will be designed as permanent construction in accordance with DoD Unified Facilities Criteria - UFC 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. Project will demolish 7,107SM including asbestos/lead paint abatement.								
11. Requiremen	t: 73	57 SM Adequate	e: 0 SM S	Subst	andard: 71	.07 SM		
PROJECT: Cons	olida A fac	ited Stealth Opera	ations & Nuc	clear	Alert Fac	c. (Current :	Mission) to a single	
mission-focuse	ission-focused building. That facility shall, as a minimum, include the							
following: the	13th	, 393rd, and 110t	h (ANG) Bor	nb Sqr	uadrons, M	lission Plan	ning,	
Intelligence,	Sched	uling, Standardiz	ation and I	Evalu	ation, Wea	pons, Survi	vability,	
Flight Records Operations, Al	, Nav ert C	igation, Operation rew facilities fo	ons briefing or strategic	g room c read	ms, Weathe diness wit	er and Airfic h beds and o	eld crew rest	
DD FORM 1391, 1	DEC 9	9 Previo	ous editions	are	obsolete.		Page No.	

1. COMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE WHITEMAN AIR FORCE BASE CONSOLIDATED STEALTH OPERATIONS & NUCLEAR

WHITEMAN SITE # 1 MISSOURI

ALERT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27576	141-753	3420/YWHG031002R2	29,500

areas, and all sortie generation affiliated entities. The facility shall consolidate all flight and training tasks for each unit.

CURRENT SITUATION: Three systemic flaws exist with the current facility arrangement at Whiteman AFB; the first concerns pre-flight processing. Currently, aircrews begin mission preparation in B153, travel to B200 for life support and pre-takeoff briefings, then to B35 for weather and airfield briefings, and finally to B33 for final mission planning and preparation. With the current situation, aircrews are required to visit 4 facilities to prepare for sortie generation. They carry Top Secret and Special Access Required documents and information disks containing highly sensitive cryptographic material through these facilities, thus jeopardizing critical information to damage or loss. The second systemic flaw results from the geographic separation of flight entities that should work in close proximity: entities such as Mission Planning, Scheduling, Flight Records, Weather, and Airfield Operations. They are currently scattered between buildings 33, 35, 153, and 200, and this dispersal of functions inhibits sortie generation and readiness. During peacetime training air operations are conducted from B33; during combat sorties, from B200. This creates a division between how aircrew train and fight. The third deficiency driving the requirement for a new facility is the condition of the alert quarters for aircrew on strategic readiness. Since the existing alert facility, B6 (which is in the airfield clear zone and long overdue for demolition), is too distant to meet response time requirements, aircrew currently occupy alert trailers in the middle of the apron. These trailers are literally double-wides on blocks and are vulnerable to inclement weather, pervious to high-decibel sound prevalent on the apron which deprives pilots of adequate rest, and are unhardened. The new facility will provide adequate and secure sleeping and crew rest areas.

IMPACT IF NOT PROVIDED: Shuttling squadron personnel between four facilities will continue to impede sortie generation. Per the 509th OG, the current facility dispersal wastes as many as 4,000 man-hours per month in transit time, time lost to checkpoint and information security measures, and inefficient pre-flight communication. That represents (estimating 2,000 man-hours per person per annum) a loss of 24 individuals' annual productivity, or 7.5% of the OG's 320 available personnel. This jeopardizes the ability of the 509th and 131st Bomb Wings to execute their Directed Operational Capability without delay or possible failure. Coordination of Bomb Squadron operations will be hampered by lack of an up-to-date facility that will bring more elements together. Alert crew quarters remain too far from the B-2 docks for the required rapid response. Current nuclear alert response times from the existing alert facility are unacceptable to STRATCOM and the national interest. B-2 mission capability will be jeopardized without additional secure vault space to execute the air operations, intelligence and weapons planning for each target. Classified briefings will continue in substandard, cramped conditions. Airfield Operations and Weather flights will remain isolated.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." A preliminary analysis of reasonable options for It accomplishing this project (status quo, renovation, new construction) was done.

1. COMPONENT		FY 2016 MILI	TARY CONSTRU	JCTION PROJECT DA	TA	2. DATE
AIR FORCE		(computer ger	nerated)		
3. INSTALLATION	, SITI	E AND LOCATION		4. PROJECT TITL	E	
WHITEMAN AIR FO	RCE B	ASE		CONSOLIDATED ST	EALTH OPERATION	S & NUCLEAR
WHITEMAN SITE #	1			ALERT FACILITY		
MISSOURI						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CC)ST (\$000)
27576		141-753	3420/Y	WHG031002R2	29	,500
27576 indicates ther construction. principles, to the design, de 200-02 dated 1 Consolidated S Project will d asbestos/lead JOINT USE CERT Wing, Missouri This project s	e is A ce incl velog Marc tealt emoli paint TFICZ Air suppor	141-753 only one option to artificate of exce ude life cycle co ment, and constru- th 2013. Base Civ th Operations & Nu sh buildings 6, 3 t abatement. ATION: This facil: National Guard; I ots Total Force In	3420/Y	WHG031002R2 eet operational been prepared. ve practices, w he project in a r Phone: (660) t Facility: 7, (7,107SM = 76, rammed for join is fully funde initiatives.	29 l requirement: Sustainable will be integ: accordance wit 687-3503. ,357 SM = 79,3 ,500SF) includ int use with 1 ed by the Air	,500 S; new rated into th UFC 1- 190 SF. ding 31st Bomb Force.

1. COMPONENT		FY 2016 MILITAR	RY CO	ONSTRUC	TION PRO	JECT	DATA	2. DATE			
AIR FORCE		(601	apute	er gene	rated)						
3. INSTALLATI	ON AND L	OCATION			4. PROJI	ECT 1	TITLE				
WHITEMAN AIR WHITEMAN SITE MISSOURI	FORCE BA	ASE			CONSOLI	DATEI ALEI	O STEALTH OPEN	ATIONS &			
5. PROGRAM EL	EMENT	6. CATEGORY CO	ODE	7. PRO	JECT NUM	BER	8. PROJECT CO)ST (\$000)			
27576		141-753		3420/Y	WHG03100	2R2	29	500			
12. SUPPLEMEN	TAL DATA	\:									
a. Estimate	d Design	n Data:									
(1) Statu	.s:	a									
(a) Da	(a) Date Design Started 29-AUG-14 (b) Parametric Cost Estimates used to develop costs										
(D) Pa	rametric	COST ESTIMATES	use	α το αε · οοιΓ	evelop co	DSTS		YES			
* (C) Pe	rcent Co	ompiete as or Ui	JAN	2015				15 %			
* (d) Da	te 35% 1	Designed					30	-JUL-15			
(e) Da	te Desig	n Complete			. /		30	-001-15			
(I) EI	lergy Sti	dy/life-Cycle a	naiy	'sis was	S/WIII DE	e per	lormed	YES			
(2) Basis	:										
(a) St (b) Wh	(a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used -										
(3) Total	Cost (c	(a) = (a) + (b) o	r (d) + (e)	:			(\$000)			
(a) Pr	oduction	n of Plans and S	peci	ficatio	ons			1,770			
(b) Al	1 Other	Design Costs	-					885			
(c) To	tal	-						2,655			
(d) Co	ntract							2,213			
(e) In	-house							442			
(4) Const	ruction	Contract Award						16 FEB			
(5) Const	ruction	Start						16 MAR			
(6) Const	ruction	Completion						17 OCT			
* Indicat which i cost an	es compl s compar d execut	letion of Projec rable to traditi rability.	t De onal	finitic 35% de	on with F sign to	Param ensu	etric Cost Es re valid scop	timate e,			
b. Equipmer	t associ	iated with this	proj	ect pro	ovided fr	com o	ther appropri	ations:			
EQUIPMEN	I NOMENC	LATURE	PI APP	ROCURIN ROPRIAI	G A SION C	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED	COST (\$000)			
FURNISHI	NG/COMM	EQPT/CONNECT'S		3080		2	017	530			
SYSTEMS	WORK STA	TIONS		3080		2	017	401			

1. COMPONENT AIR FORCE		FY 2016 MILITARY CONSTRUCTION PROGRAM 2. DATE								
INSTALLATION AND MALMSTROM AIR F	D LOCATI FORCE B/	ON ASE		COMMAND: 5. AREA CONST AIR FORCE GLOBAL STRIKE COST INDEX COMMAND 1 10						
6 Personnel	PE		-	STUDENTS SUP)	
Strength	OFF		CIV	OFF	FNI	CIV	OFF		, CIV	τοται
AS OF 30 Sep 14	449	2617	481	0	0	0	462	3053	647	7,709
END FY 2019	360	2191	479	0	0	0	373	2625	645	6,673
7. INVENTORY DA	TA (\$000)								11	,
Total Acreage:	3,627									
Inventory Total as of	: (30 Sep	o 14)								3,181,296
Authorization Not Ye	et in Invent	tory:								21,518
Authorization Reque	sted in thi	s Program	n: (FY201	6)						19,700
Planned in Next Fou	r Years Pi	rogram:								117,000
Remaining Deficience	;y:								-	69,300
Grand Total:										3,408,814
8. PROJECTS REQ	UESTED	IN THIS F	PROGRA	M:		(FY 2016	5)			
CATEGORY								COST	DESIGN	STATUS
CODE	PROJEC	<u> LE</u>				<u>SCOPE</u>	~	<u>\$,000</u>	<u>START</u>	
141-459	l actical F	Response	Force Ale	ert Facility		7,699	SM	19,700	Aug 14	Sep-15
						TOTAL		19,700		
9a Euture Projects:	Typical F	Dannad N	ovt Four V	Voore:						
	турісан			i cais.						
141-911	Replace I	Missile Ale	ert Facility	. Ph 1				10.400		
215-582	Weapons	Storage I	-acility	,				95.000		
740-674	Physical I	Fitness Ce	enter					11.600		
	,					TOTAL		117,000	-	
								,		
9c. Real Property M	aintenanc	e Backlog	This Inst	allation (\$	M)					61.8
10. Mission or Major	r Function	s: The mi	ssion of t	he 341st S	Space Wir	ng is to ke	ep Amerio	ca free an	d strong by	y providing
combat-ready people	e and aero	space for	ces. One	of three l	JSAF bas	es that ma	aintains a	nd operat	es Intercor	ntinental
Ballistic Missiles, the	e 341st SV	V manage	s a large _l	portion of	the nation	's Minuter	man III foi	rce spread	d through-c	but
Montana.										
11 Outstanding pol	lution and	Safety (O		ficiencies:						
a Air pollution		Ouloty (O						0		
								Ũ		
b. Water Pollutio	on							0		
c. Occupational Safety and Health 0										
	-									
d. Other Environ	mental							0		

DD Form 1390, 24 Jul 00

1. COMPONENT		FY 2016 MILI	TARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE			
AIR FORCE		(computer ger	erate	1)					
3. INSTALLATION	, SITE	E AND LOCATION		4. PR	OJECT TITL	Ξ				
MALMSTROM AIR F	ORCE I	BASE		TACTICAL RESPONSE FORCE ALERT FACILITY						
MALMSTROM SITE	# 1									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	PROJECT NUMBER 8. PROJECT COST (\$000)						
35896		141-753	2528/1	NZAS04	3002	1	9,700			
		9.	COST ESTIM	TES						
		ттъм		тт/м	OIIANTTTY	UNIT	COST			
		LIEM		0/11	QUANTITI		(\$000)			
PRIMARY FACILITI	ES						15,159			
TACTICAL RESPON	NSE FC	DRCE ALERT FAC (141)	753)	SM	3,838	3,199	(12,278)			
FLIGHT SIMULATO	OR FAC	CILITY (171212)		SM	809	3,199	(2,588)			
SUSTAINABILITY	AND E	INERGY MEASURES		LS			(293)			
SUPPORTING FACIL	ITIES						2,628			
PAVEMENTS				LS			(1,000)			
SITE IMPROVEMEN	NTS			LS			(718)			
UTILITIES				LS			(910)			
SUBTOTAL							17,787			
CONTINGENCY	(5	.0%)					889			
TOTAL CONTRACT C	OST					-	18,676			
SUPERVISION, INS	PECTI	ON AND OVERHEAD	(5.7%)				1,065			
TOTAL REQUEST						-	19,741			
TOTAL REQUEST (R	OUNDE	D)					19,700			
EQUIPMENT FROM C	THER	APPROPRIATIONS (NON	I-ADD)				(2,500.0)			
10. Description	on of	Proposed Constru	ction: Co	nstru	ct a new c	omplex to in	nclude			
Squadron Opera	tions	/Alert Crew/Simu]	lator Facil:	ity to	o accommod	late the mis:	sion of the			
facility. The	faci	lity should be co	mpatible w	ith a	pplicable	DoD, Air For	rce, and			
base design sta	andar	ds. Facility will	l be design	ned a:	s permaner	t construct	ion in			
comply with Dol	D ant	iterrorism/force	protection	requ:	irements p	per UFC $4-01$)-01.			
Air Conditioni	ng:	75 Tons	•	-	· · · · ·					
11. Requirement	t: 46	47 SM Adequate	e: 0 SM :	Substa	andard: 20	24 SM				
PROJECT: Tact	ical	Response Alert Fo	orce Facili	ty (N	ew Missior	1)				
REQUIREMENT:	An ad	equately sized ar	nd configure	ed int	tegrated h	elicopter o	perations			
facility is nea	eded	to provide proper	command a	nd con	ntrol, mai	ntenance, a	nd fueling			
capabilities for	or he	licopter operatio	ons providi	ng sea	curity cov	verage to rem	note ICBM			
missile alert a	and 1	aunch facilities.	A series	of bu	uildings t	hat will be	come the			
main control po	fing	administration	alert resp	ing ti	life supr	SKS INCIUGI	ng			
maintenance, c	rew e	quipment storage	and issue.	Com	olex must	provide coli	location of			
the squadron of	perat	ions facility and	alert crea	w slee	eping quar	ters with th	ne aircraft			
to minimize cro	ew re	sponse times and	enhance rea	scue/a	security t	eam effectiv	veness.			
Response time	is cr	itical when provi	ding secur	ity fo	or nuclear	weapons tra	ansports			
and conducting	sear	ch and security,	rescue/civ	il aid	d missions	. The comp	Lex must			
be heated for	ne vi ranid	response during	prolonged :	and c	faille and Eten extre	me winter c	onditions			
Malmstrom Air	Force	Base's 40th Heli	copter Sau	adron	(40HS) di	rectly suppo	orts ICBM			

DD FORM 1391, DEC 99

1. COMPONENT	FY 2016 MILITARY CONSTRU	2. DATE				
AIR FORCE	(computer gen					
3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TITLE				
MALMSTROM AIR F	ORCE BASE	TACTICAL RESPONSE FORCE ALERT	FACILITY			
MALMSTROM SITE	# 1					
MONTANA						

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
35896	141-753	2528/NZAS043002	19,700

missile alert and launch facility site security by providing rapid response/transport of Security Forces personnel and equipment from the base to the missile fields spread throughout the state.

CURRENT SITUATION: Tactical Response Force operations are currently conducted from a facility constructed in 1959. This structure is laden with asbestos containing materials, lead based paint, and is supplied with an aged and failing utilities infrastructure. The current facility is only partially adequate for the storage, maintenance, and issue of life support equipment and other provisions needed by flight crews. In addition to its inferior condition and poor layout, the current facility affords few provisions for Squadron operations and none for around-theclock alert readiness. The existing facility in not collocated with the Helicopter Hangers. Therefore additional time is required to get the alert crews to the helicopters. The security forces alert crews have a limited amount of time to reach a missile site and secure it. Taking extra time to load up a truck and drive across base to get to the helicopters could mean the difference between protecting a nuclear asset or arriving too late. The missile sites are scattered far apart and require absolute speed to get there within the allotted time frame. These helicopters and alert crews are critical to maintain security of the nuclear weapon system. Additionally, the 40HS conducts search and rescue missions throughout Montana for both military and civil authorities.

IMPACT IF NOT PROVIDED: Malmstrom AFB will be unable to properly bed down the UH-60 helicopters required to replace the UH-1. Without a new facility that allows for consolidation of Squadron Operation and Alert Crew facilities 24-hour alert responses will continue to be impeded and expediencies of consolidation will not be achieved. The existing UH-1 fleet is Vietnam vintage and does not meet the required Key Performance Parameters for performance, range, speed, or cargo capacity required to support the Tactical Response Force and ICBM Security Concepts of Operations detailed in DoDD 5210.41-M-V1, V2, V3, Security Policy for Protecting Nuclear Weapons, dated 13 July 2009. Upon contract selection, replacement helicopters can be fielded within 24 months, making this project potentially lateto-need if not approved. Without this project, existing operations will continue to progressively degrade as facilities and utility systems age and are increasingly unable to support operational requirements. Expensive parts and equipment will continue to be exposed to outdoor weather extremes. The ability to expeditiously deploy security and/or rescue personnel under updated security criteria of nuclear weapons transports and execution of search and rescue/civil aid missions will be compromised. Continued reliance on insufficient aircraft maintenance and squadron operations facilities could ultimately result in the inability to re-secure a nuclear resource if taken by force.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was performed. Only two options, renovation and new construction, meet operational requirements. The renovation project exceeds 75% of the replacement of a similar sized facility, resulting in new construction as the only viable option. Because of this an Economic Analysis was not needed or performed. A waiver will be

1. COMPONENT		FY 2016 MIL]	TA	2. DATE					
AIR FORCE			(computer gen	nerated)					
3. INSTALLATION	, SITI	E AND LOCATION		4. PROJECT TITLE					
MALMSTROM AIR F	ORCE	BASE		TACTICAL RESPON	SE FORCE ALERT	FACILITY			
MALMSTROM SITE	# 1								
MONTANA									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CO	OST (\$000)			
35896		141-753	2528/3	NZAS043002	19	,700			
prepared. Sus	prepared. Sustainable principles, to include life cycle cost effective practices,								
will be integr	ated	into the design,	developmen	t, and construe	ction of the p	project in			

will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02 dated 1 March 2013. Base Civil Engineer: CML 406-731-6188. Squadron Operations/Alert Crew Facility: (Cat Code 141753), 3,838 SM = 41,312 SF and Flight Simulator Facility: (Cat Code 171212), 809 SM = 8,708 SF. JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.

1. COMPONENT		FY 2016 MILITAR	RY CO	NSTRUC	TION PROJ	JECT	DATA	2. DATE			
AIR FORCE		(con	npute	r gene	rated)						
3. INSTALLATI	ON AND I	OCATION			4. PROJE	ECT T	ITLE				
MALMSTROM AIR MALMSTROM SIT MONTANA	FORCE E E # 1	BASE			TACTICAI FACILITY	L RES Y	PONSE FORCE A	LERT			
5. PROGRAM EL	EMENT	6. CATEGORY CO	ODE	7. PRO	JECT NUME	BER	8. PROJECT CC	ST (\$000)			
35896		141-753		2528/	NZAS0430	02	19,	700			
12. SUPPLEMEN	TAL DATA	A:				·					
a. Estimate	d Design	n Data:									
(1) Statu	(1) Status:										
(a) Da	(a) Date Design Started 29-AUG-14										
(b) Pa	rametrio	c Cost Estimates	s use	d to de	evelop co	sts		YES			
* (c) Pe	ercent Co	omplete as of 01	JAN	2015				15%			
* (d) Da	te 35% 1	Designed					30	-JUL-15			
(e) Da	te Desig	gn Complete					30	-OCT-15			
(f) En	ergy Sti	udy/Life-Cycle a	naly	sis was	s/will be	e peri	formed	YES			
(2) Basis	:										
(a) St	andard o	or Definitive De	esign	-				NO			
(b) Wh	ere Des:	ign Was Most Rec	entl	y Used	-						
(2) Total	Cost ((a) = (a) + (b) a	~ (d	\rightarrow				(\$000)			
(3) IOCAI	oduatio	D = (a) + (D) O	inegi:	fiastic	•			(\$000) 1,182			
(a) FI (b) Al	1 Other	Dogige Costa	pecr.	LICACIC	лі <u>ь</u>			1,182 591			
(C) TC	t Other	Design Costs						591			
(d) (d)	ntradt							1 477			
(a) cc (e) In	-house							296			
(4) Const	ruction	Contract Award						16 FEB			
(5) Const	ruction	Start						16 MAR			
(6) Const	ruction	Completion						17 OCT			
* 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 P sign to	arame ensu	etric Cost Es re valid scop	timate e,			
b. Equipmen	it assoc:	iated with this	proj	ect pro	ovided fr	om of	ther appropri	ations:			
EQUIPMEN	I NOMENC	LATURE	PR APPI	OCURIN	G A SION O	FISCA PPROE OR RE(L YEAR PRIATED QUESTED	COST (\$000)			
AUDIO/VI:	SUAL EQU	IPMENT		3080		20	016	500			
COMMUNIC	ATIONS E	QUIPMENT		3080		20	016	600			
FF&E 3400 2017							017	1,400			

1. COMPONENT FY 2016 MILITAE AIR FORCE					CONSTR	UCTION F	PROGRA	М	2. DATE	
3. INSTALLATION A	AND LOC	ATION:		4. COMM	/AND:			5. AREA	CONST	
OFFUTT AIR FORC	E BASE			AIR COM	IBAT CON	/MAND		COST INDEX		
NEBRASKA								1.01		
6. Personnel	PEF	RMANENT		STU	DENTS		SUF	PORTED)	
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	680	2747	1279	106	82	0	403	1364	1,446	8,107
END OF FY 2019	680	2747	1279	106	82	0	403	1364	1446	8,107
 7. INVENTORY DATA (\$000) a. Total Acreage: 1,917 b. Inventory Total as of : (30 Sep 14) c. Authorization Not Yet in Inventory: d. Authorization Requested in this Program: (FY2016) e. Planned in Next Four Year Program: f. Remaining Deficiency: g. Grand Total: 									1,800,422 100,246 21,000 <u>300,000</u> 2,221,668	
8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016) CATEGORY CODE PROJECT TITLE SCOPE \$,000 START C 721-312 Dormitory (144 Rm) 4,752 SM 21,000 Design/Build TOTAL 21,000								STATUS <u>CMPL</u> µild		
9a. Future Projects:	Typical F	Planned N	ext Four `	Years:		TOTAL		0		
9b. Real Property M	aintenanc	e Backlog	This Inst	allation: (S	5M)				-	123
10. Mission or Major reconnaissance squa squadron flying the E Squadron.	r Function adrons flyi E-4B, the <i>I</i>	s: Headq ng the OC Air Force \	uarters U C/RC/TC/\ Weather <i>I</i>	SSTRATC NC-135 cl Agency, U	COM; a str ass aircra SAF Hear	ategic aer Ift and one tland of A	ial reconr strategic merica Ba	naissance comman and and a	wing with d and cont Strategic I	five flying rol ntelligence
11. Outstanding Pol	lution and	Safety (C	SHA Def	iciencies):						
a. Air Pollution								0		
b. Water Pollutio	on							0		
c. Occupational	Safety an	d Health						0		
d. Other Enviror	mental							0		

DD Form 1390, 9 Jul 02

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DA	ГА	2. DATE
AIR FORCE (computer generated)							
3. INSTALLATION OFFUTT AIR FORC OFFUTTAIRFORCEB NEBRASKA	, SITE E BASE SE SIT	AND LOCATION E E # 1		4. PI DORMI	ROJECT TITLE TORY (144 R	: M)	
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)
27576		721-312	3100,	/SGBP1	.50907	2	21,000
		9. C	OST ESTIM	ATES		·	
		TTEM			OUANTTTY	UNIT	COST
		1164		07M	QUANIIII		(\$000)
PRIMARY FACILIT	IES						13,732
DORMITORY (144	RM)			SM	4,752	2,839	(13,491)
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(241)
SUPPORTING FACIN	LITIES						4,764
UTILITIES				LS			(650)
PAVEMENTS				LS			(655)
SITE IMPROVEME	NTS			LS			(658)
DEMOLITION				SM	5,231	233	(1,219)
ASBESTOS ABATE	MENT			SM	5,231	95	(497)
GROUND SOURCE	HEAT P	UMPS		EA	1	650,000	(650)
COMMUNICATION	SUPPOR	Т		LS		_	(435)
SUBTOTAL							18,496
CONTINGENCY	(5.0%)				_	925
TOTAL CONTRACT (COST						19,420
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				1,107
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)			_	740
TOTAL REQUEST		-)					21,267
TOTAL REQUEST (I	ROUNDE						21,000
<pre>10. Descripti utilizing econ the facility. Force, and bas techniques sha 4-room-bath/ki mail center,co access road, p work also incl designed as pe Criteria (UFC) protection req Air Conditioni 11. Requiremen</pre>	on of omica The f se des ll be tchen wmuni oarkin udes 1-20 uirem ng: 	Proposed Construct a Proposed Construct acility should be ign standards. In used where cost e living room modul cations, fire prot g, recreation area demolition of one ant construction in 0-01. This project ents per UFC 4-101 170 Tons 25 SM Adequates	tion: Co truction m compatibl addition, effective. les with 1 tection, s as, and al facility accordan twill co 1-01.	nstru ethod e wit loca Inc aundr ite w l nec (5,23 ce wi mply Subst	act a three s to accome th applicate and attriated and a source of the applicate and and attriated accome to a source of the accome and and a source of the accome the accome accome accome accome and and a source of the accome and and a source of the accome accome accome accome accome accome accome and and a source of the accome a	e-story dorm modate the p ole DoD, Air s and const: ms-4-Airmen storage, lour torage, lour ermal heat p oport. The incilities will 0 Unified Fac antiterrorism	itory nission of ruction standard) nge areas, pumps, scope of ll be cilities m/force
PROJECT: Cons	truct	Dormitory (144 RM	M). (Curr	ent M	lission)		
REQUIREMENT: all Tier 2 dor	This ms. 1	project is require 'ier 2 dorms as rec	ed to impl corded in	ement the A	the CSAF' F Dormitor	s goal to re y Master Pla	ecapitalize an are

inadequate. The construction of a new dormitory in accordance with the Air Force Dormitory Master Plan approved for Offutt AFB will incorporate the Dorms-4-Airmen Air Force Standard Modules. This project will provide unaccompanied enlisted

DD FORM 1391, DEC 99

Previous editions are obsolete.

AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE OFFUTT AIR FORCE BASE DORMITORY (144 RM) OFFUTTAIRFORCEBSE SITE # 1 DORMITORY (144 RM) NEBRASKA 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000 27576 721-312 3100/SGBP150907 21,000	1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE							
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE OFFUTT AIR FORCE BASE DORMITORY (144 RM) OFFUTTAIRFORCEBSE SITE # 1 DORMITORY (144 RM) NEBRASKA 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 27576 721-312	AIR FORCE (computer generated)							
OFFUTT AIR FORCE BASE DORMITORY (144 RM) OFFUTTAIRFORCEBSE SITE # 1 DORMITORY (144 RM) NEBRASKA 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000 27576 721-312 3100/SGBP150907 21,000	3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE							
OFFUTTAIRFORCEBSE SITE # 1 NEBRASKA 5. PROGRAM ELEMENT 6. CATEGORY CODE 27576 721-312 3100/SGBP150907 21,000	OFFUTT AIR FORCE BASE DORMITORY (144 RM)							
NEBRASKA 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000 27576 721-312 3100/SGBP150907 21,000	OFFUTTAIRFORCEBSE SITE # 1							
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000 27576 721-312 3100/SGBP150907 21,000	NEBRASKA							
27576 721-312 3100/SGBP150907 21,000	5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000)							
27576 721-312 3100/SGBP150907 21,000								
personnel with housing conducive to their proper rest, relaxation, and personal								

well-being. Properly designed and furnished quarters providing individual privation are essential to successful accomplishment of the increasingly complicated and important jobs our airmen must perform.

<u>CURRENT SITUATION:</u> The Air Force Dormitory Master Plan established the need for a replacement dormitory based on the degraded condition of the current facilities. Facility condition assessments confirm this degraded status. This project is prioritized in accordance with the Air force Dormitory Master Plan.

<u>IMPACT IF NOT PROVIDED:</u> Adequate living quarters at a level of privacy required for today's airmen will not be available; resulting in degradation of morale, productivity, and career satisfaction for unaccompanied enlisted personnel. The existing facilities will continue to deteriorate due to their age, resulting in increased maintenance costs and a decreased quality of life for occupants.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". An analysis of reasonable alternatives to meet this requirement (status quo, renovation, new construction) has been completed and new construction is the only viable option to meet this requirement. A certificate of exemption has been prepared. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (402) 294-5501. (Dormitory: 4,752 SM = 51,150 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 PROJECT	DATA	2. DATE
AIR FORCE		(compute	er ge	nerated)		
3. INSTALLATIO OFFUTT AIR FO OFFUTTAIRFORC NEBRASKA	ON AND L RCE BASE EBSE SIT	OCATION : :E # 1		4. PROJECT TI DORMITORY (14	TLE 4 RM)	
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CO	OST (\$000)
27576		721-312	310	0/SGBP150907	21	,000
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 Recent	n - Ly Use	ed -		NO
(3) All O	ther Des	ign Costs				840
(4) Const:	ruction	Contract Award				16 FEB
(5) Const:	ruction	Start				16 MAR
(6) Const	ruction	Completion				18 MAR
(7) Energ	y Study/	Life-Cycle analysis	was/	will be perfor	med	YES

1. COMPONENT		F	Y 2016 N	IILITARY	CONSTR	UCTION I	PROGRA	М	2. DATE	
				4 00141					OONOT	
3. INSTALLATION A		ATION:						5. AREA		
	BASE					/IIVIAND			DEX	
			T	OTU						
6. Personnel				510						TOTAL
		ENL			ENL			EINL 405		
AS OF 30 SEP 14 END OF FY 2019	1054 1054	5926 5926	1435	45 45	11	0	79 79	125	193	8,868 8,868
Z INVENTORY DA	TA (\$000)	0020	1400	70		0	15	125	155	0,000
a Total Acreage:	14 160									
b Inventory Total as	s of : (30)	Sep 14)								4 430 213
c. Authorization Not	Yet in Inv	entory:								108,555
d. Authorization Red	puested in	this Proc	ram: (FY2	2016)						68,950
e. Planned in Next F	our Year	Program:		,						2.751
f. Remaining Deficie	encv:									218,900
 Grand Total: 										4.829.369
g										.,,
8. PROJECTS REQ	UESTED	IN THIS I	PROGRA	M:		(FY 2016)			
CATEGORY								COST	DESIGN	STATUS
CODE	PROJEC	<u>T TITLE</u>				<u>SCOPE</u>		\$,000	<u>START</u>	CMPL
113-321	F-35A Air	field Pave	ements			152,200	SM	31,000	Design/B	uild
116-661	F-35A Liv	e Ordnar	ice Loadir	ng Area		60,878	SM	34,500	Design/B	uild
216-642	F-35A Mu	unitions M	aintenanc	e Facilitie	S	558	SM	3,450	Design/B	bliu
						TOTAL		68,950		
9a Euture Projects:	Typical F	Planned N	lext Four `	Years:						
	rypicarr			rouro.						
171-212	CRH Sim	ulator				556	SM	2,751		
						TOTAL		2,751		
9b. Real Property M	laintenanc	e Backlo	g This Inst	allation: (S	\$M)					95
10. Mission or Majo	r Function	s: USAF	Warfare (Center ma	nages adv	/anced pil	ot training	g, operatio	n, testing,	and tactics
development in air, s	space, and	d cybersp	ace. Its na	med unit,	Nevada T	est & Tra	ining Ran	ge (NTTR), oversee	s the 15,000
sq. mile Nevada Tes	t and Trai	ning Rang	ge Comple	ex that inc	ludes an e	emergenc	y airfield.	57th Wing	j, A-10A, F	-15C/E, F-
16, F-22A, F-35A, H	H-60G. 57	'th Wing r	nissions ii	nclude Re	d Flag exe	ercises (4	14th Com	bat Trainir	ng Sq.); gr	aduate level
pilot training (USAF	Weapons	School);	support fo	r Army ex	ercises (5	49th Com	bat Traini	ng Sq.); tr	aining for	international
personnel in joint fire	epower pro	ocedures	and techn	iques (57t	h Operati	ons Gp.);	and USA	Air Dem	onstration	Sq.
(Thunderbirds). 53rd	Wing, at	1/ locatio	ns nation	wide, serv	es as foca	al point for	combat a	air forces i	n electron	c warfare,
armament and avion	ics, chem	ical defen	se, recon	naissance	, and airci	rew trainir	ng devices	s, and ope	rational te	sting and
evaluation of propos	ed new ed	quipment	and syste	ms. 505th	Comman	d and Cor	ntrol Wing	builds the	e predomir	ant air and
space command and	d control a	bility for c	ombined	oint warfig	ghters thro	ough traini	ing, testin	g, exercis	ing, and	
experimentation.										
11. Outstanding Pol	lution and	Safety (C	OSHA Def	iciencies):						
a. Air Pollution								0		
h Watar Dallutic								0		
D. Water Poilutto	ות							0		
c. Occupational	Safety an	d Health						0		
	-									
d. Other Enviror	nmental							0		

DD Form 1390, 9 Jul 02

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE
AIR FORCE (computer generated)							
3. INSTALLATION	, SITE	AND LOCATION		4. PI	ROJECT TITLE	S	I
NELLIS AIR FORC	E BASE	1		F-35A	A AIRFIELD F	AVEMENTS	
NELLIS SITE # 1							
NEVADA							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)
27142		113-321	3056	/DWME1	43003		31 000
		9. 0	0ST ESTIMA	TES			
		J. C				UNIT	COST
		ITEM		U/M	QUANTITY		(\$000)
PRIMARY FACILITI	ES						24,261
PARKING APRON	(113-3	21)		SM	86,100	233	(20,080)
PAVED SHOULDERS	5 (116	-642)		SM	66,100	63	(4,181)
SUPPORTING FACII	ITIES						2,755
UTILITIES				LS			(2,001)
PAVEMENTS				LS			(654)
SITE IMPROVEMEN	ITS			LS			(100)
SUBTOTAL							27,016
CONTINGENCY	(5.0%))					1,351
TOTAL CONTRACT C	COST						28,367
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				1,617
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	SUBTOTAL)				1,081
TOTAL REQUEST							31,064
TOTAL REQUEST (F	ROUNDE	D)					31,000
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ct airfiel	d pavements	using 18
inch (medium l	oad d	esign) 700 PSI fle	ex-strengt	h Por	tland Ceme	ent Concrete	for
aircraft parki	ng ra	mp; includes aspha	alt should	ers,	base and s	sub-base, dr	ainage
utilities, pre	-form	ed compression joi	int seals.	airc	raft tiedd	owns and gro	yrading,
points, replac	e sat	ellite fire statio	on parking	lot,	AGE yard,	, road reloc	ation,
spall repair,	concr	ete apron and joir	nt seal rep	place	ement, and	all other w	ork as
necessary. Fa	cilit	ies will be design	ned as peri	manen	t construc	tion in acc	ordance
with the DoD U	nifie	d Facilities Crite	eria (UFC) ion moguin	1-20	0-01. Thi	ls project v	ill comply
11 Pequiremen	+• 12	192482 SM Adequa	ate. 11402		Subeta	andard. 0 SN	<u>л</u>
PROTECT: Cons	truat	E-35% Airfield B	woments		Mission)		•
PROUECI: COIIS	Nolli	a AFB is the desid	mated bed		location f	or Force De	velopment
and Evaluation	, and	the USAF Weapon S	School for	the	F-35A wear	on system.	A parking
apron, adequat	ely s	ized and configure	ed, is req	uired	l to suppor	t the perma	inent
beddown of 36	Prima	ry Training Aircra	aft; 12 fo:	r Dev	relopmental	, Test and	Evaluation
(DT&E) and 24	for t	he Weapons School	. The DT&	E air	craft bega	an arriving	in FY13/2
with 4 current	ly as	signed. Additiona	al F-35A a: raft dignly	ircra	itt begin a by parking	rriving in	Dec 14.
the main parki	ng ra	mp.	Lait dispi	aceu	Dy parking	J OL F-JJA 8	literate on
CURRENT SITUAT	TON:	Starting in FY 16	6/3. Nelli	s AFE	will not	have enough	parking
apron space av	ailab	le to accommodate	the addit:	ional	24 F-35A	aircraft fo	or Weapons
School trainin	g fun	ctions. Nellis AM	FB proper 1	has h	ad signifi	lcant growth	since 2000
with the F-22A	Test	and Weapon School	l beddown	(16 a	ircraft),	the F-15/F-	·16
DD FORM 1391, 1	DEC 9	9 Previou	as editions	s are	obsolete.		Page No.

1. COMPONENT	FY 2016 MILIT	ARY CONSTRU	JCTION PROJECT DAT	ГА	2. DATE
AIR FORCE	(c	computer ger	nerated)		
3. INSTALLATION, SI	TE AND LOCATION		4. PROJECT TITLE	1	
NELLIS AIR FORCE BA	SE		F-35A AIRFIELD PAVEMENTS		
NELLIS SITE # 1					
NEVADA					
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)
27142	113-321	3056,	/RKMF143003	31	,000

Aggressor beddown (48 aircraft) and the expansion of flag exercises and other force structure actions. Nellis is projected to have over 180 assigned aircraft when all actions are complete. All excess parking apron facilities have been at capacity for the last 5 to 7 years, and additional requirements have been documented through the BRAC 2005 process and previously approved new weapon system facility projects. Several ramp areas have been used to park aircraft even though the pavement violates airfield criteria. The aircraft parking situation is critical. Currently, the installation must limit the number of visiting units that can participate in the various flag exercises, the USAF Weapon School and test missions. Nellis AFB is a critical asset for capabilities and tactics testing of new weapon systems and the training of combat forces. The installation supports a diversity of weapons systems ranging from HH-60s, A-10s, F-15s, F-16s, F-22As, and now the F-35A, all of which support operational test, weapon school and flag exercises.

<u>IMPACT IF NOT PROVIDED</u>: Without adequate parking apron support for the new F-35A aircraft scheduled to 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 crowding of combat aircraft on the existing parking apron.

<u>ADDITIONAL:</u> This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide", Air Force Handbook 32-1084, "Facility Requirements" and the weapon system Facility Requirement Plan. An analysis of reasonable options for accomplishing this project (status quo, renovations, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Civil Engineer: (702) 652-4833 (Parking Apron: 86,100 SM = 94,160 SY; Asphalt Shoulders: 66,100 SM = 72,300 SY)

<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.

Page No.

1. COMPONENT		FY 2016 MILITARY C	ONSTR	JCTION PROJECT	DATA	2. DATE
AIR FORCE		(compute	er gen	nerated)		
3. INSTALLATI	ON AND L	OCATION		4. PROJECT TI	TLE	
NELLIS AIR FO NELLIS SITE # NEVADA	RCE BASE 1	3		F-35A AIRFIEL	D PAVEMENTS	
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CO	OST (\$000)
27142		113-321	305	6/RKMF143003	31,	,000
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				1,240
(4) Const	ruction	Contract Award				16 FEB
(5) Const	ruction	Start				16 MAR
(6) Const	ruction	Completion				18 MAR
(7) Energ	y Study/	Life-Cycle analysis	was/	will be perfor	rmed	YES

1. COMPONENT FY 2016 MILITARY CONSTRUC				CTION	PROJECT DA	2. DATE		
AIR FORCE (computer ger					d)			
3. INSTALLATION, SITE AND LOCATION				4. PROJECT TITLE				
NELLIS AIR FORC	E BASE	2		F-35A	A LIVE ORDNA	NCE LOADING	AREA	
NELLIS SITE # 1								
						0		
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	/. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27142		116-661	3056,	RKMF1	43002		34,500	
		9. 0	OST ESTIMA	TES				
		ттъм		TT /M	OUNTTEN	UNIT	COST	
		IIBM		07M	QUANIIII		(\$000)	
PRIMARY FACILIT	IES						16,018	
PARKING APRON	(113-3	321)		SM	47,720	233	(11,129)	
PAVED SHOULDER	s (116	5-642)		SM	11,830	63	(748)	
LOLA CREW OPERATIONS FACILITY (211-154)				SM	1,328	3,057	(4,060)	
SUSTAINABILITY & ENERGY MEASURES				LS			(81)	
SUPPORTING FACIN	LITIES	l					13,968	
UTILITIES				LS			(8,091)	
SITE IMPROVEME	NTS			LS			(324)	
PAVEMENTS				LS			(2,714)	
REVETMENTS				EA	12	60,000	(720)	
EARTH BERM				CM	22,700	8	(182)	
SUNSHADES				SM	3,600	270	(972)	
SECURITY FENCE				LM	1,300	200	(260)	
COMMUNICATIONS	SUPPO	DRT		LM	300	450	(135)	
DEMOLITION (RO	ADS, B	BERM, ASPHALT & PAVIN	IG)	LS			(570)	
SUBTOTAL							29,986	
CONTINGENCY	(5.0%)					1,499	
TOTAL CONTRACT (COST						31,485	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				1,795	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF 5	SUBTOTAL)				1,199	
TOTAL REQUEST							34,479	
TOTAL REQUEST (1	ROUNDE	D)					34,500	
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				160	
10. Descripti	on of	Proposed Construe	ction: Co	nstru	ct a Live	Ordnance Lo	ad Area	

10. Description of Proposed Construction: Construct a Live Ordnance Load Area using economical 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 cover effective. Construction includes 18 inch (medium load design) 700 PSI flex-strength Portland Cement Concrete aircraft parking ramp, asphalt shoulders, base and sub-base, drainage systems, apron lighting, edge lighting, pavement marking, site work, earth berm, revetments, utilities, preformed compression joint seals, aircraft tiedowns and grounding points, AGE yard, road relocation, new access roads, vehicle parking lot, relocated JP-8 fuel lines, sunshades, security fence, associated demolition and all other work as necessary. The LOLA Crew Operations Facility will have a reinforced concrete foundation and floor slab, structural steel frame, masonry walls, standing metal seam roof, fire detection/protection, utilities, site improvements, pavements and communications support. Facilities will be designed as permanent construction in accordance with

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Page No.

1. COMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE NELLIS AIR FORCE BASE F-35A LIVE ORDNANCE LOADING AREA NELLIS SITE # 1 NEVADA 5. PROGRAM ELEMENT 7. RPSUID/PROJECT NUMBER 6. CATEGORY CODE PROJECT COST (\$000) 27142 116-661 3056/RKMF143002 34,500 the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01. Air Conditioning: 70 Tons 11. Requirement: 1202133 SM Adequate: 1152035 SM Substandard: 0 SM PROJECT: Construct F-35A Live Ordnance Loading Area. (New Mission) REQUIREMENT: Nellis AFB is the designated beddown location for Force Development and Evaluation, and the USAF Weapon School for the F-35A weapon system. A proper Live Ordnance Loading Area (LOLA), adequately sized and configured, is required to support the permanent beddown of 36 Primary Training Aircraft; 12 for Developmental, Test and Evaluation (DT&E) and 24 for the Weapons School. The DT&E aircraft began arriving FY13/2 with 4 currently assigned. An adequately sized and configured LOLA Crew Operations Facility is required to support the LOLA operations of 120 crew personnel and their equipment of the expanded F-35A LOLA operations. CURRENT SITUATION: Starting in FY 16/3, Nellis AFB will not have enough LOLA apron space available to accommodate the additional 24 F-35A aircraft for Weapons School training functions, which begin arriving in FY15/2. Nellis AFB proper has had significant growth since 2000 with the F-22A Test and Weapon School Beddown (16 aircraft), the F-15/F-16 Aggressor Beddown (48 aircraft) and the expansion of Flag exercises and other force structure actions. Nellis is projected to have over 180 assigned aircraft when all actions are complete. The existing LOLA is operating at full capacity. All excess LOLA facilities have been at capacity for the last 5 to 7 years, and additional requirements have been documented through the BRAC 2005 process and previously approved new weapon system facility projects. Nellis AFB is a critical asset for capabilities and tactics testing of new weapon systems and the training of combat forces. The installation supports a diversity of weapons systems ranging from HH-60s, A-10s, F-15s, F-16s, F-22As, and now the F-35A, all of which support operational test, weapon school and flag exercises. IMPACT IF NOT PROVIDED: Without adequate LOLA support for the new F-35A aircraft scheduled to 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 crowding of combat aircraft on the existing LOLA apron. ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide", Air Force Manual 32-1084, "Facility Requirements" and the weapon system Facility Requirement Plan. An analysis of reasonable options for accomplishing this project (status quo, renovations, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (702) 652-4833 (Parking Apron: 47,720 SM = 57,072 SY; Paved Shoulder: 11,830 SM = 14,148 SY; LOLA Crew Operations Facility: 1,328 SM = 14,300 SF)

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE					
AIR FORCE	(computer generated)					
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE						
NELLIS AIR FORCE BASE F-35A LIVE ORDNANCE LOADING AREA						
NELLIS SITE # 1						
NEVADA						
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000)						
27142	116-661	3056	3056/RKMF143002 34			

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 3. INSTALLATIC NELLIS AIR FOR NELLIS SITE #) N AND LO	FY 2016 MILITARY (comp	CONSTRU	JCTION P	ROJECT	DATA	2. DATE		
AIR FORCE 3. INSTALLATION NELLIS AIR FOR NELLIS SITE #	ON AND LO	(comp	1. COMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated)						
3. INSTALLATIO NELLIS AIR FOR NELLIS SITE #	ON AND LO	AIR FORCE (computer generated)							
NELLIS AIR FOR NELLIS SITE #		CATION		4. PROJ	ECT TIT	LE			
NEVADA	RCE BASE 1			F-35A L	IVE ORI	DNANCE LOADING	G AREA		
5. PROGRAM ELI	EMENT	6. CATEGORY COD	ре 7. р	ROJECT N	UMBER	8. PROJECT CC	OST (\$000)		
27142		116-661	305	6/RKMF14	3002	34,	500		
12. SUPPLEMEN	TAL DATA:	:							
a. Estimated	d Design	Data:							
(1) Projec	t to be	accomplished by	design-	build pr	cocedure	25			
(2) Basis: (a) St (b) Wh	andard or ere Desig	r Definitive Des yn Was Most Rece	ign - ntly Use	ed -			NO		
(3) All Ot	her Desi	gn Costs					1,380		
(4) Constr	ruction C	ontract Award					16 FEB		
(5) Constr	ruction S	tart					16 MAR		
(6) Constr	uction C	ompletion					18 MAR		
(7) Energy	/ Study/L	ife-Cycle analys	sis was/	will be	perform	ned	YES		
b. Equipment	t associa	ted with this p	roject p	provided	from o	ther appropri	ations:		
EQUIPMENT	NOMENCL	PF	ROCURING	APPRC	FISCA APPROI OR RE	L YEAR PRIATED QUESTED	COST (\$000)		
COMMUNICA	TIONS-ELI	ECTRICAL EQUI	340	0	2	017	60		
FURNISHIN	GS		340	0	2	017	100		
1. COMPONENT		FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE							
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AIR FORCE	(computer generated)								
3. INSTALLATION	:								
NELLIS AIR FORC NELLIS SITE # 1 NEVADA	E BASE	2		F-35A MUNITIONS MAINTENANCE FACILITIES					
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	/PROJECT NUMBER 8. PROJECT COST (\$000)						
27142		216-642	3056,	/RKMF1	103011		3,450		
		9. 0	OST ESTIMA	TES					
		ТТТ		TT /M	OUDNETEN	UNIT	COST		
		11EM		07M	QUANIIII		(\$000)		
PRIMARY FACILIT	ES						2,355		
MUNITIONS MAIN	renanc	E ADDITION (216-642)	1	SM	279	4,138	(1,155)		
MISSILE MAINTE	NANCE	ADDITION (216-642)		SM	279	4,138	(1,155)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(46)		
SUPPORTING FACIN	LITIES					ĺ	638		
UTILITIES				LS			(101)		
SITE IMPROVEMEN	NTS			LS			(246)		
PAVEMENTS				LS			(171)		
COMMUNICATIONS	SUPPO	RT		LS			(120)		
SUBTOTAL							2,993		
CONTINGENCY	(5.0%)				150			
TOTAL CONTRACT (COST						3,143		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				179		
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	SUBTOTAL)				120		
TOTAL REQUEST							3,442		
TOTAL REQUEST (F	ROUNDE	D)					3,450		
EQUIPMENT FROM (THER	APPROPRIATIONS (NON-	ADD)				35		
10. Descripti	on of	Proposed Construe	ction: Co	nstru	ict Munitic	ons Maintena	ance and		
Missile Mainte	nance	additions using o	economical	desi	.gn and con	struction i	methods to		
accommodate th	e mis	sion of the facil:	ity. The	facil	ity should	l be compat:	ible with		
applicable DoD), Air	Force, and base of	design sta	ndard	ls. In addi	tion, loca	l materials		
and constructi	on te	confiques shall be	used wher	e cos	st cover ei er glabg g	tective.	Facilities		
frames, standi	ng se	am metal roofs, f:	ire detect	ion/r	protection.	utilities			
landscaping, r	oads/	parking and access	s pavement	s, li	ghting and	l markings,			
communications	supp	ort and all other	work as n	ecess	sary. Munit	ions/missi	le		
maintenance fa	cilit	ies additions requ	uire concr	ete b	last walls	. Facilit:	ies will be		
designed as pe	rmane	ent construction in	n accordan	ce wi	th the Dol	Unified Fa	acilities		
Criteria (UFC)	1-20	0-01. This project	ct will co	mply	with DoD a	Intiterroria	sm/force		
protection req	uiren	ents per UFC 4-10.	1-01.						
Air Conditioni	ng:	30 Tons	- 2002 av			0 (1)(
11. Requiremen	10: 45	98 SM Adequate	: 3893 SM	SU	ibstandard:	U SM			
PROJECT: Cons	truct	F-35A Munitions I	Maintenanc	e Fac	ilities.	(New Missio	on)		
REQUIREMENT:	Addit	ional munitions/m	issile mai	ntena	nce facili	ty capacity	y is Fr		
Inventory 12	for T	evelopmental Test	and Fuel	o rri Natio	mary frain אמריע מור (המריע המ	and 24 for 4	the Weapong		
School. Aircr	aft h	egan arriving in 1	FY13/2 wit	h 4 c	urrently a	ssigned. A	dditional F-		
35A aircraft w	vill a	rrive beginning De	ec 2014.	With	24 months	normally re	equired for		

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Previous editions are obsolete.

Page No.

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	FY 2016 MILITARY CONSTRUCTION PROJECT DATA					
AIR FORCE	(co	omputer generated)				
3. INSTALLATION, SITE AND NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA	D LOCATION	4. PROJECT TITLE F-35A MUNITIONS MAINTENANC	E FACILITIES			

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27142	216-642	3056/RKMF103011	3,450

construction and 6 months required for security accreditation, the construction period will have to be compressed and temporary O&M work-arounds will be implemented to meet aircraft delivery timelines. This additional time is required to support the facility security accreditation process; maintenance computer tracking/maintenance systems, communication instruments/systems; telephones; furniture and other work necessary for a complete and usable facility for the intended purpose. A total of 36 F-35A aircraft are ultimately slated for delivery to Nellis AFB over the next decade. The Munitions Maintenance Facility bay addition will support the inspection and maintenance of conventional munitions that will support the test and training requirements for the F-35A aircraft. The Missile Maintenance Facility bay addition will support the inspection and maintenance of missiles to be tested and utilized by the F-35A aircraft. Nellis AFB has been designated as the beddown location for Force Development and Evaluation and the USAF Weapon School for the F-35A Weapon System.

CURRENT SITUATION: Nellis AFB does not have adequate munitions/missile maintenance facility capacity to support the munitions maintenance requirements of an additional 36 F-35A aircraft for test and the Weapons School. Nellis is one of the most congested airfields in the Air Force from an operational and logistics perspective. Nellis AFB proper has had significant growth since 2000 with the F-22A Test and Weapon School Beddown (10+2 BAI aircraft), the F-15/F-16 Aggressor Beddown (36 aircraft), and expansion of Flag exercises and other force structure actions. Nellis is projected to have over 180 assigned aircraft when all actions are complete. All excess conventional munitions maintenance, missile maintenance and munitions trailer maintenance facilities have been at capacity for the last 5 to 7 years, and additional requirements have been documented through the Base Realignment and Closure (BRAC) 2005 process and previously-approved new weapon system facility projects. The installation is a critical asset for the capabilities and tactics testing of new weapon systems and the training of Combat Forces. The installation supports a diversified weapons systems ranging from HH-60s, A-10s, F-15s, F-16s, F-22A, and now F-35A, all of which support operational test and weapon school and flag exercises.

IMPACT IF NOT PROVIDED: Nellis AFB's ability to generate the necessary aircraft sorties to support operational test and weapons school mission requirements will be severely impacted. Without adequate munitions/missile maintenance support, munitions/missile maintenance personnel will be unable to complete the inspection and maintenance of conventional munitions and missiles that are being tested and utilized by this new weapon system. Additionally, the first beddown locations for new weapon systems of all kinds provide the initial pool of qualified operators and maintainers who will in turn train the next group of personnel for follow on locations. If the AF is unable to train adequate numbers of personnel in the early stages the impacts will be felt for follow on locations and may impact/delay initial and/or final operational capability.

<u>ADDITIONAL:</u> This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide" and Air Force Manual 32-1084, "Facility Requirements". An analysis of reasonable options for accomplishing this

1. COMPONENT		FY 2016 MILIT	ГА	2. DATE					
AIR FORCE		(computer generated)							
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE									
NELLIS AIR FORCE BASE F-35A MUNITIONS MAINTENANCE FACILITIES									
NELLIS SITE # 1									
NEVADA									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	7. RPSUID/PROJECT NUMBER 8. PROJECT					
27142		216-642	542 3056/RKMF103011 3						

project (status quo, renovations, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project and will follow the guidance detailed in the AF Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (702) 652-4833. (Munitions Maintenance Facility: 279 SM = 3,000 SF; Missile Maintenance Facility: 279 SM = 3,000 SF).

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

1. COMPONENT AIR FORCE	FY 2016 MILITARY (compu	CONSTRUCTION	1 PROJECT	DATA	2. DATE						
3. INSTALLATION AN	ID LOCATION	4. PI	ROJECT TI	TLE							
NELLIS AIR FORCE I NELLIS SITE # 1 NEVADA	BASE	F-352	A MUNITIO	NS MAINTENANCH	3 FACILITIES						
5. PROGRAM ELEMEN	6. CATEGORY CODE	7. PROJECT	NUMBER	8. PROJECT CC)ST (\$000)						
27142	216-642	3056/RKM	F103011	3,	450						
12. SUPPLEMENTAL a. Estimated De	DATA: sign 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				138						
(4) Constructi	on Contract Award				16 FEB						
(5) Constructi	on Start				16 MAR						
(6) Constructi	on Completion				17 MAR						
(7) Energy Stu	dy/Life-Cycle analys	is was/will]	be perfor	med	YES						
b. Equipment as	sociated with this pr	oject provid	led from c	other appropri	ations:						
EQUIPMENT NOM	PR	OCURING APPR	FISCA C APPRC OR RE	AL YEAR OPRIATED QUESTED	COST (\$000)						
COMMUNICATION	S-ELECTRONIC EQUI	3400	2	2016	25						
FURNISHINGS		3400	2	2016	10						

1. COMPONENT AIR FORCE		FY 20	16 MIL	ITARY	CONST	RUCTIO	ON PRO	GRAM	2. DATE	
	TION AND LOCATION ICOMMAND: 15. AREA CON							CONST		
CANNON AFB.	200,111	0.11		AIR FC	RCE SI	PECIAL		COST INC)EX	
NEW MEXICO				OPER/		COMM	AND	0.98		
6. Personnel	PE	PERMANENT STUDENTS SUPPORTED								
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 Sep 14	851	3849	835	0	0	0	4	59	5	5.603
END FY 2019	873	3861	835	0	0	0	4	59	5	5,637
7. INVENTORY DAT	A (\$000)									
a. Total Acreage: 3,789										
b. Inventory Total as	of: (30 S	Sep 14)								1,002,731
c. Authorization Not	Yet in Inve	entory:								69,000
d. Authorization Requ	uested in	this Progra	am:							21,000
e. Planned in Next Fo	our Year F	Program:								13,200
f. Remaining Deficier	ncy:	Ū								206,900
g. Grand Total:	-									1,312,831
8. PROJECTS REQ	UESTED	IN THIS P	ROGR	AM: (F`	Y2016)					
CATEGORY								COST	DESIGN	STATUS
CODE	PROJEC	<u>T TITLE</u>				SCOPE	<u>.</u>	\$,000	<u>START</u>	CMPL
-										
730-837 Construct AT/FP Gate - PORTALES 652 SM \$7,800 Design Build							Build			
						Total		\$7,800		
9a. FUTURE PROJE	ECTS: Ty	pical Plan	ned Ne	ext Four	Years:					
116-642	Construc	t Shoulder	s, Run	way 13-	31	<u>98,933</u>	SY	<u>\$13,200</u>		
						Total		\$13,200		
9b. Real Property Ma	aintenanc	e Backlog	This Ir	nstallatio	on: (\$M))				100
10. MISSION OR M	AJOR FU	NCTIONS	: Speci	al Opera	ations W	/ing with	1 MC-130)W, MC-13	0J, AC-13	0J
(RECAP), CV-22, No	n-Standa	rd Aviatior	(NSA)), Non-S	tandard	Aviatio	n (NSA),	Remotely	Piloted Air	craft
(RPA), and Special T	actics spe	ecial opera	ations s	quadror	ns.					
11. OUTSTANDING	POLLUT	ION AND	SAFET	Y (OSH	A)DEFI	CIENCI	ES:	-		
a. Air pollution								0		
b. Water Pollutio	n							0		
c. Occupational	Safety and	d Health						0		
d. Other Environ	mental							0		

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1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE		
AIR FORCE	R FORCE (computer generated)								
3. INSTALLATION	, SITE	E AND LOCATION		4. PF	ROJECT TITLE	3	I		
CANNON AIR FORC	E BASE	2		CONSI	RUCT AT/FP	GATE - PORTA	LES		
CANNON AFB SITE	# 1								
NEW MEXICO									
5. PROGRAM ELEM	6. CATEGORY CODE	PROJE	ROJECT NUMBER 8. PROJECT COST (\$000)						
27576		730-837	1551/	CZQZ1	13000		7,800		
		9. 0	TES		1				
						UNIT	COST		
		LTEM		U/M	QUANTITY		(\$000)		
PRIMARY FACILIT	IES						1,682		
GATEHOUSE				SM	90	3,111	(280)		
COMMERICAL VEH	TCLE T	NSPECTION FAC		SM	556	2,448	(1.361)		
OVERWATCH FACT	 1.TTY			SM	6	1,217	(1,001)		
SUSTATNABTLITY	AND E	NERG MEASURES		LS		_,,	(33)		
							(35 <i>)</i>		
SUPPORTING FACT	511169						5,125		
UTILITIES				LS	1		(1,005)		
PAVEMENTS				LS			(1,048)		
SITE IMPROVEME	NTS			LS	1		(978)		
COMMUNICATIONS				LS			(302)		
DEMOLITION				SM	521	52	(27)		
PASSIVE FORCE	PROTEC	TION MEASURES		LS			(1,765)		
SUBTOTAL							6,807		
CONTINGENCY	(5.0%)					340		
TOTAL CONTRACT	COST						7,147		
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				407		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF \$	SUBTOTAL)				272		
TOTAL REQUEST							7,827		
TOTAL REQUEST (1	ROUNDE	D)					7,800		
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	-ADD)				90		
10. Descripti	on of	Proposed Constru	ction: Con	nstru	ict a new e	entry contro	5 1		
gatehouse, veh	icle	inspection station	n with insp	pecti	on pits, i	interior bay	y catwalk		
and circulatio	n roa	ds, over-watch sta	ation, asso	ociat	ed roadway	s, and parl	king lot		
conventional d	th an legion	and construction	protection methods to	n (AT	(/FP) Crite	eria. Utili:	ze of the		
facility. In	addit	ion; local materia	als and con	nstru	ction tech	nique shall	l be used		
where cost eff	ectiv	ves. Project will	be designed	ed as	permanent	construct:	ion in		
accordance wit	h Uni	fied Facilities C	riteria (UI	FC) 1	-200-01.]	Includes al	l associated		
fire protectio	on, co	mmunications, sign	nage, util:	ities	, pavement	s, site im	provements,		
landscaping, a	ind ot	her required support	ort. Demol:	ish 5	21 SM. Pro	oject will a	comply with		
the DoD minimu	m ant	iterrorism/force	protection	requ	irements p	per UFC 4-0	10-01.		
Air Conditioni	ng:	15 Tons	•						
11. Requiremen	nt: 65	2 SM Adequate:	0 SM S1	ubsta	ndard: 521	LSM			
PROJECT: Cons	struct	: AT/FP Gate - Port	tales. (Cu	urren	t Mission))			
REQUIREMENT:	An ad	lequately sized and	d configure	ed en	try contro	ol point the	it provides		
sate and secur	e acc	ess through the Poppert wobjels of the	ortales gat	te. T	ne ID Cheo	ck Area will	1 include		
guara Dootins t	.o sup	Port venicie entry	y in the H	noun	u Iailes, à	a guardiouse	-, and		
DD FORM 1391,	DEC 9	9 Previo	us editions	s are	obsolete.		Page No.		

FEBRUARY 2015

1. COMPONENT	FY 2016 MILITARY CON	2. DATE				
AIR FORCE	(computer					
3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TITLE	4. PROJECT TITLE			
CANNON AIR FORC	E BASE	CONSTRUCT AT/FP GATE -	PORTALES			
CANNON AFB SITE	# 1					
NEW MEXICO						
5. PROGRAM ELEM	ENT 6. CATEGORY CODE 7. RPSU	ID/PROJECT NUMBER 8. P	ROJECT COST (\$000)			

1551/CZQZ113000

outbound lanes. A canopy shall cover the inbound lanes in order to shield guards and commuters from the elements. The Gatehouse includes: guardroom; unisex restroom; electrical/telecomm room; mechanical room; and storage room. The Commercial Vehicle Inspection Facility includes: two commercial vehicle-sized bays with catwalks for guards; inspection equipment room; guard room; driver waiting room; and building support space. Special equipment within the Vehicle Inspection Facility includes an Under Vehicle Inspection System, equipment to perform above vehicle inspections, and other technologies to thoroughly and safely screen vehicles. The Overwatch Tower will be a small raised facility that will accommodate a single armed guard and provide a full view of the entry control area. In addition, traffic flow improvements such as newly paved roads, with wider maneuverability for commercial traffic, to provide safe entry onto and exiting the installation. Denial barriers properly placed to meet UFC standoff and delay requirements.

730-837

CURRENT SITUATION: The Portales Entry Control Point (ECP) does not currently meet several AT/FP and UFC standards. The denial barriers do not meet UFC delay requirements which pose a major security risk (details are classified secret -- refer to CVAMP observation number 2008-0010). This gate has a temporary search area that does not have proper setbacks, and is difficult for large commercial vehicles to maneuver through properly without creating a traffic safety concern. Additionally, the current search areas do not have the capability to support any electronic infrastructure, which severely limits search capabilities. The outdated and rudimentary search procedures Cannon AFB Security Forces must use are nowhere near as effective with the increasingly deadly vehicle-born threats the military now faces. The Portales Gate is the only ECP for commercial vehicles to enter the installation. Personnel commuting from Portales and surrounding communities use this ECP as well. Currently, there is a very short distance between the vehicle inspection areas and the ECP which frequently results in the bottlenecking of commercial and privately owned vehicles waiting to enter the Portales ECP. These delays create hold-patterns on County Road Q and Country Road 467 which not only impact the people commuting to base, but also impacts commuters travelling to and from the surrounding areas. As construction increases due to the AFSOC beddown, so will the number of construction vehicles passing through the gate. When the construction of the southeast development of the base is completed, this problem will only worsen as use of this ECP triples.

<u>IMPACT IF NOT PROVIDED</u>: Failure to construct this ECP will hinder the installation's ability to detect and deter potential terrorist threats, reduce the effectiveness of existing resources and possibly allow a terrorist device access to the installation. The Air Force will continue to accept the safety risks to facilities and equipment, and to DoD and non-DoD personnel entering and exiting the base due to violations of minimum DoD AT/FP standards. The risk for serious vehicular accidents will also increase as the base population grows, especially with the amount of traffic passing through the gates each day. Cannon will also experience increasing delays entering the Portales ECP due to the large volume of commercial vehicles and personnel commuting from Portales and surrounding areas.

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27576

Page No.

7,800

1. COMPONENT	FY 2016 MILITAN	2. DATE				
AIR FORCE	(coi					
3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TIT	4. PROJECT TITLE			
CANNON AIR FORC	E BASE	CONSTRUCT AT/F	CONSTRUCT AT/FP GATE - PORTALES			
CANNON AFB SITE	# 1					
NEW MEXICO						
5. PROGRAM ELEM	ENT 6. CATEGORY CODE 7	. RPSUID/PROJECT NUMBER	8. PROJECT CO	OST (\$000)		

1551/CZQZ113000

ADDITIONAL: This project meets the criteria/scope in Air Force Manual 32-1084, "Facility Requirements". An economic analysis of reasonable options for accomplishing this project (status quo, upgrade/removal, new construction) was done. It indicates that there is only one option that will meet the operational requirement: new construction. Comply with DODI 5200.08, Change 2, Effective April 8, 2014, "Security of DOD Installations and Resources and the DOD Physical Security Review Board". Sustainable engineering principles will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02. Base Civil Engineer: (575) 784-2008. Gate House: 90 SM = 970 SF; Commercial Vehicle Inspection Facility: 556 SM = 5,982 SF; Overwatch Facility: 6 SM = 65 SF. JOINT USE CERTIFICATION: This is an installation utility/infrastructure project and

730-837

does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.

27576

7,800

1. COMPONENT		FY 2016 MILITA	RY CONST	RUCTION	PROJECT	DATA	2. DATE			
2 TNORALLART			mputer g							
3. INSTALLATI	ON AND I	OCATION		4. PR	OJECT TI	TLE 				
CANNON AIR FO	RCE BASE	:		CONSTRUCT AT/FP GATE - PORTALES						
NEW MEXICO	16 # 1									
5. PROGRAM EI	EMENT	6. CATEGORY C	ODE 7. 1	PROJECT	NUMBER	8. PROJECT CC	OST (\$000)			
27576		730-837	15	51/CZQZ	113000	7,	800			
12. SUPPLEMEN	ITAL DAT.	A:								
a. Estimate	d Design	n Data:								
(1) Proje	ct to be	accomplished b	y design	-build	procedur	es				
(2) Basis	:									
(a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used -										
(3) All O	ther Des	ign Costs					312			
(4) Const	ruction	Contract Award					16 FEB			
(5) Const	ruction	Start					16 APR			
(6) Const	ruction	Completion					17 AUG			
(7) Energ	y Study/	Life-Cycle anal	ysis was	/will b	e perfor	med	YES			
EQUIPMEN:	r nomenc	LATURE	PROCURIN	G APPRC	FISC APPRC OR RE	AL YEAR OPRIATED SQUESTED	COST (\$000)			
UNINTERRI	JPTIBLE	POWER SUPPLY	34	00	2	2017	25			
CLOSED C	IRCUIT T	V EQUIPMENT	34	00	2	2017	65			

1. COMPONENT AIR FORCE		FY 2016 MILITARY CONSTRUCTION PROGRAM2. DATE								
3. INSTALLATION A	AND LOC	ATION:		4. COMN	/AND:			5. AREA	CONST	
HOLLOMAN AIR FO	RCE BAS	SE,		AIR COM	BAT CON	/MAND		COST IN	DEX	
NEW MEXICO							0.97			
6. Personnel	PEF	RMANEN	Γ	STU	DENTS		SUF	PORTED)	
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	274	2671	696	0	60	0	96	359	226	4,382
END OF FY 2019	274	2671	696	0	60	0	96	359	226	4,382
7. INVENTORY DA	IA (\$000)									
a. I otal Acreage:	53,603	0								0.005.040
D. Inventory I otal as Authorization Not	b. Inventory Total as of: (30 Sep 14) 2,305,340									
c. Authorization Not	Yet in inv	this Drog		046)						88,921
 Authorization Red Diappod in Novt E 	luested in	Inis Piog	ram: (FY2	2016)						3,000
e. Planneu in Nexi F		Program.								3,200
a Grand Total	incy.									2 /70 111
g. Granu Tolai.										2,479,111
8 PROJECTS REQ	UESTED	IN THIS F	ROGRA	٨·		(FY 2016)			
CATEGORY	020.20					(2010	/	COST	DESIGN	STATUS
CODE	PROJEC	T TITLE				SCOPE		\$.000	START	CMPL
116-661	Marshalli	ng Area A	RM/DE-A	RM Pad D)	7.900	SM	3.000	Design/B	uild
		5				TOTAL		3,000		
9a. Future Projects:	Typical F	Planned N	ext Four \	Years:						
149-511	RPA Fixe	d Ground	Control S	Station Fac	cility	558	SM	3,200	-	
						TOTAL		3,200		
9b Real Property M	aintonanc	e Backlor	This Inst	allation: (9	SN/1)					213
10 Mission or Major	r Function		nhat Com	allallon. (J	iahter win	a with E-2		trons one	German	$\frac{213}{-4}$ training
squadron a major co	mmand t	s. All COI	uadron a	weapons	testina ar	y with 1-2 nd avaluat	.2A Syuac ion wina	and the w		-4 training material
bare base support or		anning sq	uauron, a	weapons	tooting a	iu cvaluat	ion wing,			material
bare base support gr	oup.									
11. Outstanding Pol	lution and	Safety (C	SHA Defi	iciencies):						
a. Air Pollution								0		
b. Water Pollutio	n							0		
c. Occupational Safety and Health 0										
d. Other Environ	mental							0		

DD Form 1390, 9 Jul 02

1. COMPONENT		FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE									
AIR FORCE (computer generated)											
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	Z					
HOLLOMAN AIR FO	RCE BA	SE		MARSH	ALING AREA,	ARM/DE-ARM	PAD D				
HOLLOMAN SITE #	1										
5. PROGRAM ELEM	ENT	6 CATEGORY CODE	7. RPSUTD/	PROTE	T NIIMBER	8. PROTECT	COST (\$000)				
		CATEGORI CODE									
27597		116-661	2352	/KWRD1	.33001		3,000				
		9. C	OST ESTIMA	ATES	1						
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)				
PRIMARY FACILITIES 1,739											
MARSHALING ARE	A FOR	ARM/DE-ARM PAD D (11	6661)	SM	6,500	232	(1,508)				
PAVED SHOULDERS	s (851	147)		SM	1,400	165	(231)				
SUPPORTING FACII	LITIES						880				
LIGHTING				LS			(230)				
STRIPING				LS			(150)				
SITE IMPROVMENT	TS			LS			(500)				
SUBTOTAL							2,619				
CONTINGENCY	(5.0%))					131				
TOTAL CONTRACT (COST						2,750				
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				157				
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	UBTOTAL)				105				
TOTAL REQUEST							3,011				
TOTAL REQUEST (F	ROUNDE	D)					3,000				
10. Descripti	on of	Proposed Construct	tion: Co	nstru	ct marshal	ling area fo	or existing				
Arm/De-Arm Pad	l D to	accommodate F-16	mission.	Proj	ect will e	extend appro	oximately				
required airfi	eld 1.	ighting and stripi	ing. The	marsh	aling area	a will be de	s and signed as				
permanent cons	struct	ion in accordance	with the	DoD U	nified Fac	cilities Cri	teria (UFC)				
1-200-01. Thi	s pro.	ject will comply w	vith DoD a	ntite	rrorism/fo	orce protect	ion				
requirements p	er UF	C 4-101-01.									
11. Requiremen	nt: 76	615 SM Adequate	e: 68715 S	М	Substandar	rd: SM	_				
PROJECT: Cons 16 mission. (New M	marshaling area f (ission)	or existi	ng Ar	m/De-Arm H	Pad D to acc	commodate F-				
REQUIREMENT:	Recen	t basing decisions	directed	the	movement o	of two F-16	Formal				
Training Unit	squad	rons from Luke AFE	3 to Hollo	man A	FB. Marsh	naling areas	s on the				
Holloman airfi	eld f	or additional airc	rait to u with li	tiliz mited	e post-arr	windows al	uired in				
need to be arm	ned an	d ready for takeof	f at the	comme	ncement of	the airspa	ace window.				
Expanding the	exist	ing Arm/De-Arm Pad	D would	provi	de the add	litional hol	lding area				
required for a	dditi	onal aircraft.									
CURRENT SITUAT	ION:	The lack of marsh	naling are	as on	the Hollo	oman airfiel	ld for				
aircraft to ut	ilize	post-arming is a	significa	nt pr	oblem which	ch must be c	overcome				
prior to stude	ent tr	aining. Processes	s in place	at H	olloman no	ow prevent a	aircraft				
However. even	if ai	rcraft were allowe	d to take	off	early. the	ere is no pl	lace for				
them to hold p	rior	to entering the wo	orking air	space	in many o	cases.					
IMPACT IF NOT	PROVI	DED: The lack of	a marshal	ing a	rea in sup	port of the	e F-16				
DD FORM 1391,	DEC 9	9 Previou	s edition	s are	obsolete.		Page No.				

1. COMPONENT	FY 2016 MIL	ARY CONSTRUCTION PROJECT DATA 2. DATE					
AIR FORCE		computer generated)					
3. INSTALLATION	4. PROJECT TITLE						
HOLLOMAN AIR FORCE BASE MARSHALING AREA, ARM/DE-ARM F							
HOLLOMAN SITE #	1						
NEW MEXICO							
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000)					
27597	116-661	2352/KWRD133001 3,000					

training mission will cause tremendous backlogs getting into the end of runway arming areas causing some flights to take off late simply because they could not get into the arming area because of the congestion. This will have an impact on the F-16 flying schedule execution with a full flying schedule consisting of two squadrons of aircraft.

ADDITIONAL: This project meets the criteria/scope in AF Handbook 32-1084, Facility Requirements; and UFC 3-260-01, Airfield and Heliport Planning and Design. A preliminary analysis of alternatives indicates that constructing an addition to the existing Arm De-Arm Pad D is the only feasible option. This is a new mission beddown (F-16) specific to the training mission and no other suitable facilities exist on Holloman AFB. A certificate of exception has been prepared. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project and in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (575) 572-3071. Concrete Pad: 6,500 SM = 7,775 SY; Paved Shoulders: 1,400 SM = 1,675 SY.

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	OMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE									
AIR FORCE		(compute	er ge	nerated)						
3. INSTALLATI HOLLOMAN AIR HOLLOMAN SITE NEW MEXICO	ON AND I FORCE BA # 1	OCATION ASE		4. PROJECT TI MARSHALING AR	TLE EA, ARM/DE-ARM	M PAD D				
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CC	OST (\$000)				
27597		116-661	235	2/KWRD133001	3,	000				
12. SUPPLEMEN	ITAL 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) Wr	: andard oner Des:	or Definitive Design ign Was Most Recent	n - Lv Use	ed -		NO				
(3) All O	ther Des	sign Costs	•			90				
(4) Const	ruction	Contract Award				16 FEB				
(5) Const	ruction	Start				16 MAR				
(6) Const	ruction	Completion				17 MAR				
(7) Energ	y Study/	Life-Cycle analysis	was/	will be perfor	med	YES				

1. COMPONENT		F	Y 2016 M	ILITARY	CONSTR	UCTION F	PROGRA	М	2. DATE	
		<u></u>							0.0.NOT	
	DLOCAT	ON						5. AREA	CONST	
			_	0.71	DENTO		0.91			
6. PERSONNEL	PEF	MANENI SIUDENIS					SUF	PORIED	011/	TOTAL
STRENGTH	OFF	ENL		OFF	ENL	CIV		ENL		
AS OF 30 SEP 14	350	1152	1742				798	2073	799	6,914
	340 TA (\$000)	1151	1883				702	2063	793	6,938
7. INVENTORY DA	IA (\$000)									
a. Total Acreage:	43,842	Con 11)								0 440 545
D. Inventory Lotal as Authorization Nat	SOT: (30)	Sep 14)								2,446,515
c. Authorization Not	Yet in inv	entory:		040)						57,936
 Authorization Red Diagnod in Navt F 	quested in	this Progi	ram: (FY2	2016)						12,800
e. Planned in Next F	-our year	Program:								7,439
I. Remaining Delicie	ency:								-	500,133
g. Grand Lotal:										3,090,823
				1.		(EV2016)				
O PROJECTS REQ	UESIED		RUGRAI	VI.		(F12010)		COST	DESIGN	STATUS
		ד דודו ב				SCODE		¢ 000	CTADT	CMD
<u>CODE</u> 212.472	Space Ve	<u>i iiiLE</u> biolog Co	mnonont	Dovolonm	ontlob	2 200	SM	12 900	Docian Pi	
312-472	Space ve		mponent	Developin	ent Lau	Z,390	3101	12,000	Design Bu	iliu
						TOTAL		12,000		
9a. Future Projects:	Typical F	lanned N	ext Four `	Years:						
171-212	CRH Sim	ulator				1,255	SM	7,439		
						TOTAL		7,439		
Ob Roal Property M	aintanana	o Pookloo	This last	allation: /	2012					165.2
10 Mission or Maio	r Eurotion	e Dackiug	7th Air D	allation. (3	pivi) o the heat	+ orgonizo	tion at Kir	tland AED	lt waa aa	403.2
10. MISSION OF Major		S. The Sr		1002 and		l organiza	Nuclear V	Maanana Arb	Contor on	
2006 The Wing one	rotoo ond	manu on T	the Air E	1995 anu	became p			ioint mod		
2006. The wing open		maintains			n largest i	Jase and a	an AF/VA d Evoluati	joint med		The wing
provides worldwide r	eadiness,	Security a	ina suppo			ar restan	u Evaluati	ion Center	, AF Salet	y Center,
AF Inspection Agence	y, two AF	Researcr	i Lab dire	ctorates, I	Jerense I	nreat Rec	luction Ag	jency, Dep	bartment of	Energy
and Sandia National	Laborator	Tes.		-:						
11. Outstanding poil	lution and	Safety (O	SHA Deli	ciencies):				0		
a. Air pollution								0		
b Water Pollutio	n							0		
b. Water F endie								Ũ		
c. Occupational	Safety and	d Health						0		
								~		
d. Other Environ	mental							0		
· · · · · · · · · · · · · · · · · · ·										

DD Form 1390, 24 Jul 00

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION	PROJECT DAT	ſA	2. DATE		
AIR FORCE		(c	omputer gen	erate	d)				
3. INSTALLATION	, SITE	E AND LOCATION		4. PROJECT TITLE					
KIRTLAND AIR FO	RCE BA	ASE		SPACE	E VEHICLES C	OMPONENT DEV	ELOPMENT LAB		
KIRTLAND SITE #	1								
NEW MEXICO		1	 						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
72806		312-472	2445/	/MHMV0	43095		12,800		
		9. 0	OST ESTIMA	TES	1 1				
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)		
	TRO						7 9/9		
CONDONENIE DEVE				av	2 300	3 360	(0 001)		
COMPONENT DEVE	LOPMEN	TT LAB		SM	2,390	3,260	(7,791)		
ENERGY AND SUS		SILITY MEASURES		12			(158)		
SUPPORTING FACI	LITIES						3,155		
UTILITIES				LS			(590)		
PAVEMENTS				LS			(150)		
SITE IMPROVEME	NTS			LS			(210)		
COMMUNICATIONS	TAV (6 19)					(600)		
DEMOLITION	IAA (0.10)		SM ST	4 078	236	(962)		
SUBTOTAL					1,0,0		11 104		
CONTINCENCY	(5.0%	\					11,104		
TOTAL CONTRACT	(5.0%)					11 660		
SUPERVISION IN	SDECTT	ON AND OVERHEAD	(5.7%)				11,000		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	(J.7%)				444		
TOTAL REQUEST			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			-	12,768		
TOTAL REQUEST (1	ROUNDE	D)					12,800		
EQUIPMENT FROM	OTHER	APPROPRIATIONS (NON-	ADD)				1,324		
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ct a facil	ity utilizi	.ng		
conventional d	lesign	and construction	methods to	o acc	ommodate t	he mission	of the		
facility. The	e faci	lity should be con	mpatible w	ith a	pplicable	DoD, Air Fo	orce, and		
base design st	andar	ds. In addition;	local mate	erial	s and cons	truction te	chniques		
shall be used	where	e cost effective.	Work inclu	udes	multi-zone	HVAC syste	ems, multi-		
Facilities wil	l be	designed as perman	nent const:	ucti	on in acco	rdance with	the DoD		
Unified Facili	ties	Criteria (UFC) 1-2	200-01. Der	molis	sh 4,078 SM	. This pro	ject will		
comply with Do	D ant	iterrorism/force p	protection	requ	irements p	er UFC 4-01	.0-01.		
Air Conditioni	ng:	200 Tons							
11. Requirement	nt: 85	570 SM Adequate	: 6180 SM	Su	bstandard:	2390 SM			
PROJECT: Space	e Veh	nicles Component De	evelopment	Lab.	(Current	Mission)			
REQUIREMENT:	A hig	h-tech, state-of-	the-art fa	cilit	y is requi	red to supp	ort space		
vehicles compo	nent	development of spa	ace power g	gener	ation, sol	ar arrays a	ind		
photovoltaic c	ells,	space power store	age, space	vehi	cle mechan	isms (launo	h		
including radi	ation	-hardened electron	nics, and a	ısm C envir	conmental e	ensors and	crvo-		
coolers. The	facil	ity should provide	e four lig	ht la	bs, two me	dium labs,	and class		
1,000 clean ro	oms r	required for space	vehicle r	esear	ch, develo	pment, and			
experiments. I	t sho	ould also provide o	office spa	ce fo	or analysis	, engineeri	.ng,		
	_								

DD FORM 1391, DEC 99 Previous editions are obsolete.

Page No.

1. COMPONENT

(computer generated)

3. INSTALLATION, SITE AND LOCATION KIRTLAND AIR FORCE BASE KIRTLAND SITE # 1 NEW MEXICO 5. PROGRAM ELEMENT 6. CATEGORY C

4. PROJECT TITLE SPACE VEHICLES COMPONENT DEVELOPMENT LAB

NEW MEXICO			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
72806	312-472	2445/MHMV043095	12,800

engineering support and management personnel. It should comply with DoD antiterrorism/force protection provisions.

CURRENT SITUATION: Work is now performed in eleven substandard, inadequate and obsolete facilities spread over twelve miles apart on Kirtland AFB. These facilities include metal modular buildings, an old dining hall, and a swimming pool maintenance shed. The work is fragmented and project development interaction is inefficient. Major related Air Force efforts supporting multiple critical research and development activities, such as space protection, are performed in portions of three 1960s-vintage facilities originally built as maintenance shops, security police facilities, and civil engineering buildings that have been converted for research use. Even after their conversion, these facilities do not provide the high tech, super-clean spacecraft science and technology work areas required by the Component Development Laboratory. These buildings have frequent mission stoppages due to failures in HVAC, electrical, and plumbing sub-systems. This creates schedule delays to research and development programs. Additionally, due to facilities shortcomings, activities in these old buildings cannot commence at the same pace as newer facilities in the Space Vehicles directorate. These substandard buildings must provide critical spacecraft development components to other labs, but the persistent facility failures create costly and unacceptable delays in other Space Vehicle programs. In an environment where our adversaries are developing space countermeasures as fast as we are developing space technology solutions, it is critical that we provide the warfighter a competitive advantage compared to our adversaries. This project provides the facility to develop the technologies necessary to address AFSPC's Top 10 Capability areas' priorities. This facility is required to meet the emerging needs (nuclear survivable communications, launch detection, anti-jamming) of the SMC's GPS (~\$60B+ of assets) and MILSATCOM (~\$42B of assets) program offices.

IMPACT IF NOT PROVIDED: The Space Vehicles Directorate's research programs are cofunded/co-leveraged by the Navy, Defense Threat Reduction Agency, DARPA, NRO, USASMDC, Air Force SPOs and AFSPC, as well as several projects that work with NATO. Plug and Play activities are spread across all services and agencies and with Sweden as defined under the international Memorandum of Agreement signed by AFRL/CC, as are the hardened-by-design, miniaturization, and component design efforts. The highly visible, state-of-the-art Field Programmable Gate Array is cofunded by AF SPOs, AFRL, and the Cryptologic Applications Group. The sensors and cryogenic research is co-funded by AF and MDA for both space platforms as well as Early Warning receiver applications. This is highly representative of the joint efforts and international implications of the Space Vehicles Directorate's research in electronics, sensors, cryogenic, thermal, and advanced architectural solutions being pursued. Virtually all space electronics are developed or derived from the work performed at Kirtland for commercial, DOD, and NASA uses. Infrared Focal Planes and Cryocoolers developed through these programs are also widely used by all services and organizations. Crucial space vehicles component development technologies as required to address AFSPC's Top 10 Capability areas' priorities, will be delayed or not developed, and technologies to improve awareness and

DD FORM 1391, DEC 99

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE	(computer generated)								
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE									
KIRTLAND AIR FORCE BASE SPACE VEHICLES COMPONENT DEVELOPMENT LAB									
KIRTLAND SITE # 1	1								
NEW MEXICO									
5. PROGRAM ELEMEN	NT 6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	OST (\$000)				
72806	312-472 2445/MHMV043095 12,800								

defensive capabilities for space systems applications will not be developed or transitioned to programs supporting command, control, communications, intelligence, surveillance, and reconnaissance missions in space. The geographically separated laboratories will continue to hinder program movement from initial experiments through scaled demonstrations and on to prototype development of advanced space concepts. These serious negative impacts to cost, control, and risk will continue to be excessive and unacceptable without this new high tech lab.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." All known alternative options were considered during the development of this project. A waiver to an economic analysis was approved for this project because no other option could meet the mission requirements. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02. Base Civil Engineer: (505) 846-7911. Component Development Lab: 2,390 SM = 25,726 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 in Air Force requirements.

							1	
1. COMPONENT AIR FORCE		FY 2016 MILITARY (compu	CONSTRU	JCTION :	PROJECT)	DATA	2	. DATE
3. INSTALLATI	ON AND L	OCATION		4. PRO		TI.E		
KIRTLAND AIR KIRTLAND SITE NEW MEXICO	FORCE BA	SE		SPACE LAB	VEHICLE	s component di	EVE	LOPMENT
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT	NUMBER	8. PROJECT CC	OST	(\$000)
72806		312-472	244	5/MHMV0	43095	12,	,800	D
12. SUPPLEMEN	TAL DAT	A:						
a. Estimate	d Design	Data:						
(1) Proje	ct to be	accomplished by d	lesign-	build p	rocedur	es		
(2) Basis (a) St (b) Wh	: andard o here Des:	or Definitive Desi ign Was Most Recen	gn - tly Use	ed -				NO
(3) All O	ther Des	ign Costs						512
(4) Const	ruction	Contract Award					16	FEB
(5) Const	ruction	Start					16	APR
(6) Const	ruction	Completion					17	AUG
(7) Energ	y Study/	Life-Cycle analys:	is was/	will be	perfor	med		YES
EQUIPMENI	NOMENCI	PR	OCURING	APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)
SYSTEMS I	URNITUR	Ε	308	0	2	017		554
EQUIPMENT	C		340	0	2	017		420
COMMUNICZ	ATIONS		308	0	2	017		350

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROGR						PROGRA	М	2. DATE		
3. INSTALLATION A	AND LOC	ATION		4. COMM	/AND:			5. AREA	CONST		
SEYMOUR JOHNSO	ON AIR FO	ORCE BAS	SE	AIR COM	AIR COMBAT COMMAND COST INDEX						
NORTH CAROLINA								0.84			
6. Personnel	PEF	RMANENT		STU	DENTS		SUF	PORTED)		
Strength	OFF	ENL	CIV	OFF	ENL	CIV	ENL	CIV	TOTAL		
AS OF 30 SEP 14	426	3587	598	56	8	0	38	279	281	5,273	
END OF FY 2019	426	3587	598	56	8	0	38	279	281	5,273	
 INVENTORY DATA. Total Acreage: Inventory Total as Authorization Not Authorization Rec Planned in Next F Remaining Deficie Grand Total: 	TA (\$000) 4,117 s of : (30 s Yet in Inv quested in Four Year ency:	Sep 14) entory: this Progr Program:	ram: (FY2	2016)					-	1,371,536 6,168 17,100 0 122,600 1,517,404	
8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016) CATEGORY COST DESIGN ST <u>CODE</u> <u>PROJECT TITLE</u> 149-962 Air Traffic Control Tower/Base Ops 3,260 SM 17,100 Design/Build Total 17,100								STATUS <u>CMPL</u> uild			
9a. Future Projects:	Typical F	Planned N	ext Four `	Years:		TOTAL		0	-		
						101/12		Ũ			
9b. Real Property M	aintenanc	e Backlog	This Inst	allation: (S	\$M)	_		_		95.6	
10. Mission or Major conduct initial qualifie	r Function cation trai	s: Air Cor ning, and a	mbat Com an Air Fo	nmand; a f rce Reser	ighter win ve KC-13	g with 4 F 5 air refue	-15E squ ling wing.	adrons, in	cluding two	o which	
11. Outstanding Pol a. Air Pollution	lution and	Safety (C	SHA Def	iciencies):				0			
b. Water Pollutic	n							0			
c. Occupational Safety and Health							0				
d. Other Environ	mental							0			

DD Form 1390, 9 Jul 02

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION	PROJECT DAT	ГА	2. DATE	
AIR FORCE		(c	omputer gen	erate	d)			
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	1	•	
SEYMOUR JOHNSON	AIR B	ORCE BASE		AIR TRAFFIC CONTROL TOWER/BASE OPERATIONS				
SEYMOUR JOHNSON NORTH CAROLINA	AIR E	ORCE BS SITE # 1		FACILITY				
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/1	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27576		149-962	3268/V	KAG01	.3004R5		17,100	
		9. 0	OST ESTIMA	TES	, , , , , , , , , , , , , , , , , , , ,	1		
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILIT	IES						11,434	
AIR TRAFFIC CO	NTROL	TOWER (149-962)		VM	46	118,200	(5,437)	
BASE OPERATION	s (141	-453)		SM	2,476	2,332	(5,774)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(223)	
SUPPORTING FACIN	LITIES						3,436	
UTTLITTES				LS			(450)	
STTE IMPROVEME	NTS			LS			(475)	
PAVEMENTS				LS			(550)	
DEMOLITION				SM	3,290	220	(724)	
ASBESTOS & LEA	D BASE	D PAINT REMOVAL		SM	3,290	65	(214)	
COMMUNICATIONS	SUPPO	RT		LS			(122)	
ELEVATOR				LS			(476)	
EMERGENCY GENE	RATORS			LS			(425)	
SUBTOTAL						-	14,870	
CONTINGENCY	(5.0%)					743	
TOTAL CONTRACT	COST					-	15,613	
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				890	
DESIGN/BUILD -	DESIGN	COST (4.0% OF S	SUBTOTAL)				595	
TOTAL REQUEST							17,098	
TOTAL REQUEST ()	ROUNDE	D)					17,100	
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				1,350	
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ict an air	traffic con	trol tower	
with base oper	ation	s facility using e	economical	desi	gn and con	struction m	ethods to	
accommodate th	e mis	sion of the facil:	ity. The :	facil	ity should	l be compati	ble with	
applicable Dol	on to	Force, and base (lesign star	ndard	ls. In addi	tion, local	materials	
using reinford	ed co	oncrete foundation	used where /pilings w:	ith f	loor slab.	structural	steel	
frame, exterio	or mas	onry walls, stand:	ing seam me	etal	roof, util	ities, fire		
detection/supp	ressi	on, site improveme	ents, pave	nents	, asbestos	/lead paint	abatement,	
communication	suppo	ort, and all other	supporting	g fac	ilities.	Demolish 3,	290 SM.	
Facility will	be de	signed as permaner	nt construe	ction	in accord	lance with t	he DoD	
Unified Facili	ties. force	Criteria (UFC) 1-2	200-01. Ti rements per	nis p r UFC	roject wil 4_101_01	I comply wi	th DOD	
Air Conditioni	10108	120 Tong	rements per	L OFC	. 4-101-01.			
11 Requirement	1 Requirement: 2476 SM Adequate: 0 SM Substandard: 2070 SM							
DDOIEGT. Gana	47	Nir Traffic Cont-			Operation-	Facilit	(Current	
Mission)	LLUCT	ALL HALLIC CONT	LOI IOWEr/I	Dase	OPELATIONS	, racillty.	(Currenc	

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Page No.

 1. COMPONENT
 FY 2016 MILITARY CONSTRUCTION PROJECT DATA
 2. DATE

 AIR FORCE
 (computer generated)
 2. DATE

 3. INSTALLATION, SITE AND LOCATION
 4. PROJECT TITLE

 SEYMOUR JOHNSON AIR FORCE BASE
 AIR TRAFFIC CONTROL TOWER/BASE OPERATIONS

 SEYMOUR JOHNSON AIR FORCE BS SITE # 1
 FACILITY

NORTH CAROLINA			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27576	149-962	3268/VKAG013004R5	17,100

REQUIREMENT: Construct an airfield operations facility which includes an Air Traffic Control Tower, Base Operations, Operations Support Squadron staff, Inflight Kitchen Addition, Wing Safety, and Weather offices with all other support. Facility provides command and control of all flight and ground operations around the installation.

CURRENT SITUATION: The Air Traffic Control Tower, Base Operations, In-flight Kitchen, Wing Safety, and Weather buildings are inadequately sized and configured for today's mission and high-tech equipment. Air traffic controllers do not have visual contact with all airfield surfaces due to facilities in the line of sight. Therefore, aircraft and ground personnel are at risk during aircraft movement. Access to the tower cab is narrow and unsafe. The control tower lacks space for required offices, operations cab, and simulator training for controllers. The Seymour Johnson control tower/radar approach control records an annual aircraft traffic count of approximately 110,000 flights making it the second busiest in Air Combat Command. These activities control 5,800 square miles of airspace. They provide radar services to 8 separate airports; assist and coordinate aircraft actions with 12 Federal Aviation Administration Air Traffic Control Centers, Terminal Radar Approach Controls, and control tower while managing the flow of aircraft in North Carolina's Eastern Region. In addition, operations support and central mission planning are located over a mile from the F-15E flying operations and training squadrons.

IMPACT IF NOT PROVIDED: Substandard/undersized Air Traffic Control Tower, Base Operations, In-flight Kitchen, Wing Safety, and Weather facilities will remain in service. Personnel operating on the flight line will remain at risk due to the inability of the tower to maintain visual contact with airfield surfaces; compromising safety. The DoD Advanced Automated Systems will have to be temporarily installed in the existing tower, causing the National Airspace System to suffer significantly. Air Traffic Control will be forced to control 5,800 square miles of airspace in an antiquated facility. Safety/reliability then remain a major concern if a safety of flight conflict arises. Proper safety monitoring under adverse weather conditions would be unavailable. Traffic flow would slow down considerably and services would have to be reduced. Critical operational support will continue to be located over a mile from operational flying squadrons.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". An analysis of reasonable alternatives to meet this requirement (status quo, renovation, new construction) has been completed and new construction is the only viable option to meet this requirement. A certificate of exception has been prepared. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (919) 722-5142. Air Traffic Control Tower: 46 VM = 151 VF; Base Operations: 2,476 SM = 26,651 SF.

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

	FY 2016 MILI (TARY CO compute	NSTRU er gen	CTION erate	PROJECT d)	DATA		2. DATE
ON AND I	OCATION			4. PR		TLE	I	
				лтр m	DAFETO O			CR
ON AIR P	ORCE BASE	# 1		ODEDY	TTONS FA	ONIROL IC	WER/DA	12E
IA		" -			11000 111			
LEMENT	6. CATEGORY	CODE	7. PR	OJECT	NUMBER	8. PROJE	CT COS	т (\$000)
	149-96	2	3268/	VKAG0	13004R5		17,1	00
NTAL DATA	A:							
ed Design	n Data:							
ct to be	accomplished	l by des	sign-b	uild	procedur	es		
:								
here Des	or Definitive ign Was Most 1	Design Recentl	y Use	d -				NO
ther Des	ign Costs							684
ruction	Contract Awar	d					1	6 FEB
ruction	Start						1	6 MAR
ruction	Completion						1	7 SEP
y Study/	Life-Cycle an	nalysis	was/w	ill b	e perfor	med		YES
I NOMENCI	LATURE	PROCU	URING	APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)
NICATION	S AWITCHES		3400		2	017		30
OPERATIN	G EQUIPMENTS		3080		2	017		680
UPTIBLE	POER SOURCE		3080		2	017		40
E			3400		2	017		120
ATIONS S	UPPORT		3080		2	017		480
	CON AND I CON AIR F CON AI	FY 2016 MILI (CON AND LOCATION SON AIR FORCE BASE SON AIR FORCE BASE SON AIR FORCE BS SITE IA LEMENT 6. CATEGORY 149-96 NTAL DATA: ed Design Data: et to be accomplished so that Design Costs fruction Contract Awar fruction Contract Awar fruction Start fruction Completion by Study/Life-Cycle ar at associated with th F NOMENCLATURE NICATIONS AWITCHES OPERATING EQUIPMENTS UPTIBLE POER SOURCE E ATIONS SUPPORT	FY 2016 MILITARY CO- (compute SON AND LOCATION SON AIR FORCE BASE SON AIR FORCE BS SITE # 1 IA LEMENT 6. CATEGORY CODE 149-962 NTAL DATA: ed Design Data: ect to be accomplished by design here Design Costs struction Contract Award cruction Start struction Completion my Study/Life-Cycle analysis nt associated with this proj PROCT F NOMENCLATURE NICATIONS AWITCHES OPERATING EQUIPMENTS UPTIBLE POER SOURCE E ATIONS SUPPORT	FY 2016 MILITARY CONSTRU (computer gen CON AND LOCATION SON AIR FORCE BASE SON AIR FORCE BS SITE # 1 IA LEMENT 6. CATEGORY CODE 7. PR 149-962 3268/ NTAL DATA: 20 ad Design Data: 7. PR act to be accomplished by design-bis: 31 tandard or Definitive Design - 6. Category Code here Design Costs 7. PR truction Contract Award 7. PR truction Start 7. PR truction Completion 7. PR T NOMENCLATURE PROCURING T NOMENCLATURE 3400 OPERATING EQUIPMENTS 3080 UPTIBLE POER SOURCE 3080 E 3400 ATIONS SUPPORT 3080	FY 2016 MILITARY CONSTRUCTION (computer generate CON AND LOCATION 4. PR SON AIR FORCE BASE SON AIR FORCE BS SITE # 1 TA AIR T GEMENT 6. CATEGORY CODE 149-962 7. PROJECT 3268/VKAGO WTAL DATA: AIR T ad Design Data: cct to be accomplished by design-build i: tandard or Definitive Design - here Design Was Most Recently Used - wther Design Costs truction Contract Award cruction Completion ry Study/Life-Cycle analysis was/will b nt associated with this project provide PROCURING APPRO T NOMENCLATURE NICATIONS AWITCHES 3400 OPERATING EQUIPMENTS 3080 UPTIBLE POER SOURCE 3080 E 3400 ATIONS SUPPORT 3080	FY 2016 MILITARY CONSTRUCTION PROJECT (computer generated) CON AND LOCATION 4. PROJECT TT AIR TRAFFIC C OPERATIONS FAU SON AIR FORCE BASE AIR TRAFFIC C OPERATIONS FAU SON AIR FORCE BS SITE # 1 AIR TRAFFIC C OPERATIONS FAU LEMENT 6. CATEGORY CODE 149-962 7. PROJECT NUMBER 3268/VKAG013004R5 NTAL DATA: ad Design Data: cct to be accomplished by design-build procedur standard or Definitive Design - here Design Was Most Recently Used - ther Design Costs truction Contract Award truction Completion by Study/Life-Cycle analysis was/will be performed approx nt associated with this project provided from contract Approx T NOMENCLATURE NICATIONS AWITCHES NICATIONS SUPPORT ATIONS SUPPORT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated) CON AND LOCATION 4. PROJECT TITLE AIR TRAFFIC CONTROL TO OPERATIONS FACILITY CON AIR FORCE BASE SON AIR FORCE BASE SON AIR FORCE BASE TANK AIR TRAFFIC CONTROL TO OPERATIONS FACILITY CEMENT 6. CATEGORY CODE 149-962 7. PROJECT NUMBER 3268/VKAG013004R5 8. PROJECT OPERATIONS FACILITY NTAL DATA: 6. CATEGORY CODE 149-962 7. PROJECT NUMBER 3268/VKAG013004R5 8. PROJECT OPERATIONS FACILITY NTAL DATA: 6. CATEGORY CODE 149-962 7. PROJECT NUMBER 3268/VKAG013004R5 8. PROJECT OPERATIONS FACILITY NTAL DATA: 6. CATEGORY CODE 149-962 7. PROJECT NUMBER 3268/VKAG013004R5 8. PROJECT OPERATIONS FACILITY International Complexity Decision Protect to be accomplished by design-build procedures to the Design Costs . PROTECT TO PROTECT TO COMPLETION Truction Completion Truction Completion Ty Study/Life-Cycle analysis was/will be performed at associated with this project provided from other app OR REQUESTED OR REQUEST	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated) CON AND LOCATION NON AIR FORCE BASE ON AIR FORCE BASE ON AIR FORCE BS SITE # 1 A SEMENT 6. CATEGORY CODE 149-962 7. FROJECT NUMBER 3268/VKAG013004R5 8. FROJECT COS 149-962 3268/VKAG013004R5 17.1 NTAL DATA: ad Design Data: ct to be accomplished by design-build procedures :: tandard or Definitive Design - here Design Was Most Recently Used - vther Design Costs rruction Contract Award 1 rruction Completion 1 mications Sawitches 3400 2017 OR REQUESTED NICATIONS AWITCHES 3400 2017 OPERATING EQUIPMENTS 3080 2017 ATONS SUPPORT 3080 2017

1. COMPONENT		FY 2016 MILITARY CONSTRUCTION PROGRAM 2. DATE									
3 INSTALLATION /		ATION		4. COM	MAND:			5. AREA	CONST		
ALTUS AIR FORCE	BASE		ł	AIR EDU	CATION /	AND		COST IN	DEX		
OKLAHOMA			ł	TRAININ	G COMM	AND		0.98			
6. Personnel	PEF	RMANENT		STU	JDENTS						
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL	
AS OF 30 SEP 14	263	1090	1186	277	160	18	0	0	546	3,540	
END FY 2019	297	1128	1321	1149	604	79	0	0	596	5,174	
7. INVENTORY DA	TA (\$000)										
a. Total Acreage:	5,048	O = == 1 1								000 057	
b. Inventory I otal as	3 0f: (30 ;	Sep 14)								930,057	
C. Authorization Not	Yet in Inv	entory:		001C)						24,921	
 Authorization Rec Diappod in Next I 	Juesteu III Four Voor	Inis Piogi Program:	am. (г т 2	2010)						∠0,400 13 000	
f Remaining Deficie		Piogram.								16,900	
a Grand Total	filoy.								-	1 014 078	
g. Oranu rotai.										1,017,070	
8. PROJECTS REC	UESTED	IN THIS F	ROGRA	M:		(FY201	6)				
CATEGORY						(· · ·	-,	COST	DESIGN	STATUS	
CODE	PROJEC	T <u>TITLE</u>				<u>SCOPE</u>		\$,000	<u>START</u>	CMPL	
721-312	Dormitory	/ (120 Rm`)			3,960	SM	18,000	Design/Bu	uild	
211-179	KC-46A F	TU ADAL	Fuel Cel	I Maintena	ance	4,891	SM	10,400	May-13	Jan-14	
						TOTAL		28,400			
9a. Future Projects:	Typical F	'lanned Ne	ext Four Y	rears:							
171-212	KC-46A F	-TU Fusel	age Train	er Ph 2		921	SM	3,500			
171-625	KC-46A F	TU Simul	ator Facil	ity Ph 2		2,063	SM	10,400			
				,		TOTAL		13,900			
								-			
9b. Real Property M	laintenanc	e Backlog	J This Inst	allation: (\$M)					63	
10. Mission or Major	Functions	3: The 97	AMW is r	esponsibl	e for form	al training	of all C-1	7 and KC-	135 for ac	tive duty,	
Guard and Reserve	ircrews, v	while mair	ntaining w	orldwide o	capability f	to augme	nt Global I	Reach cor	ntingency s	support.	
The 97 AMW has co	mplete res	sponsibility	y for all re	fueling of	military ai	ircraft in it	s assigne	d sector o	f the contir	nental	
United States. In ad	dition, the	97 AMW	is an integ	gral part o	of two Stra	tegic Hon	neland De	fense Mis	sions, Coa	stal	
Defense and Maritim	ne Interdic	tion.		<u> </u>							
11. Outstanding pol	lution and	Safety (U	SHA) Det	iciencies:				0			
a. Air pollution								0			
b Water Pollutic	on							0			
D. Water i Oliutie								0			
c. Occupational Safety and Health 0											
	-										
d. Other Enviror	nmental							0			

DD Form 1390, 24 Jul 00

1. COMPONENT		FY 2016 MIL	ITARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE	
AIR FORCE			(computer ger	erate	d)			
3. INSTALLATION	, SIT	E AND LOCATION		4. PF	ROJECT TITL	Ξ	·	
ALTUS AIR FORCE	BASE			KC-46A FTU ADAL FUEL CELL MAINTENANCE				
ALTUS AIR FORCE	BASE	SITE # 1		HANGAR				
5. PROGRAM ELEM	5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/F				NUMBER	8. PROJECT	COST (\$000)	
41976		211-179	1361/A	GGN14	3005A	1	10,400	
		9.	COST ESTIM	TES				
						UNIT	COST	
		ITEM		U/M	QUANTITY		(\$000)	
PRIMARY FACILITI	ES						7,838	
CONSTRUCT HANG	AR EXT	TENSION		SM	1,145	5,476	(6,270)	
ALTERATION WORK	к			SM	3,746	377	(1,412)	
SUSTAINABILITY	AND I	ENERGY MEASURES		LS			(156)	
SUPPORTING FACII	LITIES	5					1,568	
PAVEMENTS				LS			(439)	
UTILITIES				LS			(121)	
COMMUNICATIONS				LS			(14)	
SITE IMPROVEMEN	NTS			LS			(994)	
SUBTOTAL							9,406	
CONTINGENCY	(5	5.0%)					470	
TOTAL CONTRACT C	COST					-	9,877	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				563	
TOTAL REQUEST							10,440	
TOTAL REQUEST (F	ROUNDE	1D)					10,400	
10. Descripti	on of	Proposed Constru	uction: Add	d/Alt	er hangar	518 to full	y enclose	

the KC-46A, KC-135 and C-17 assigned aircraft. Construction shall utilize economical design and construction methods to accommodate the fuel cell maintenance mission of the facility. The facility shall be compatible with applicable DOD, Air Force, and base design standards. In addition, local materials, and construction techniques shall be used where cost effective. Work includes, but is not limited to, site work, pavements, structural, mechanical, electrical and fire detection/suppression systems to provide a complete and useable facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection per UFC 4-010-01.

Air Conditioning: 0 Tons

11. Requirement: 4891 SM Adequate: 3746 SM Substandard: 0 SM PROJECT: KC-46A FTU ADAL FUEL CELL MAINTENANCE HANGAR (New Mission) REQUIREMENT: The AF has designated Altus AFB, OK as the Formal Training Unit (FTU) for the KC- 46A tanker aircraft. Facility will support enterprise training and beddown of a KC-46A training squadron comprised of 6 to 8 aircraft scheduled for delivery beginning in FY16. An adequately sized and configured, fully enclosed fuel cell hangar is required to support the beddown of the KC-46A tanker while also accommodating the wing's KC-135 and C-17 aircraft. An additional 1,145 SM must be added to the existing KC-135 and C-17 fuel cell maintenance structure to accommodate the taller tail section and fully enclose the KC-46A airframe, and provide aircraft maintenance personnel 24-hour out-of-the weather workspace to

DD FORM 1391, DEC 99

1. COMPONENT AIR FORCE FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)

3. INSTALLATION, SITE AND LOCATION ALTUS AIR FORCE BASE ALTUS AIR FORCE BASE SITE # 1 OKLAHOMA 4. PROJECT TITLE KC-46A FTU ADAL FUEL CELL MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
41976	211-179	1361/AGGN143005A	10,400

perform repairs, inspections and scheduled maintenance in support of the new mission in accordance with AFMAN 32-1084, Para 3.1.2 and Table 3.1, KC-46A Facilities Requirement Plan and KC-46A Strategic Basing Criteria.

CURRENT SITUATION: Existing fuel cell facilities utilized for KC-135 and C-17 maintenance are nose docks and are not properly configured to support the KC-46A. Altus Air Force Base lacks a fuel cell that will completely enclose the KC-46A air frame as required by the KC-46A FRP. The fuel cell will continue to support maintenance of the KC-135 and C-17.

IMPACT IF NOT PROVIDED: If this project is not executed by 2016, the Altus AFB training mission will be degraded with a risk to Mobility Air Force student production. Work arounds would have a significant negative impact on the mission capable rate of both existing airframes and the KC-46A. These proposed work arounds include using the corrosion control facility which is currently at an 80% utilization rate. Implementing this course of action will delay corrosion control work and fuel cell work on both KC-135 and C-17 assigned aircraft. Additionally, the corrosion control facility is not configured for tank ventilation. This requires employees to utilize mobile ventilation and creates a slightly higher safety risk as this is not the normal fuel cell maintenance procedure. Of note, any maintenance down time of 7 days or more to a single KC-46A will cause an irretrievable loss of up to 4 trained pilots and 4 boom operators per month. ADDITIONAL: The criteria/scope for this project is contained in the KC-46A Formal Training Unit Beddown Program Plan 14-01. As a new weapons system, Air Force Manual 32-1084 Facility Requirements does not adequately address the operational, training, and security requirements of the KC-46A training mission. This work was initially submitted as an FY14 project (AGGN143005) for \$3.5M, but additional requirements were subsequently uncovered, thus requiring a new project to accomplish this work. An economic analysis of reasonable options was accomplished comparing alternatives of addition/alteration and new construction, concluding that an addition/alteration of an existing facility was most effective. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer, COMM: 580-481-6530. Construct Hangar Extension: 1,145 SM = 12,325 SF; Alter Hangar: 3,746 SM = 40,322 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

1. COMPONENT		FY 2016 MILITARY CO	ONSTRUC	TION PROJECT	DATA	2. DATE
AIR FORCE		(compute	er gene	rated)		
3. INSTALLATI	ON AND I	LOCATION		4. PROJECT	TITLE	
ALTUS AIR FOR	CE BASE			KC-46A FTU A	ADAL FUEL CELI	
ALTUS AIR FOR OKLAHOMA	CE BASE	SITE # 1		MAINTENANCE	HANGAR	
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)
41976		211-179	1361/2	AGGN143005A	10,	400
12. SUPPLEMEN	TAL DAT	A:				
a. Estimate	d Design	n Data:				
(1) Statu	.s:					
(a) Da	-NOV-14					
(b) Parametric Cost Estimates used to develop costs						
* (d) Da	$\pm 0.35\%$ 1	Designed	2015		28	13% TAN-15
(e) Da	te Desig	n Complete			30	-SEP-15
(f) En	nergy Stu	udy/Life-Cycle analy	sis was	s/will be per	formed	YES
(2) Basis				-		
(a) St	andard o	or Definitive Design	. -			NO
(b) Wh	ere Des:	ign Was Most Recentl	y Used	-		N/A
(3) Total	Cost (d	c) = (a) + (b) or (d)) + (e)):		(\$000)
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		624
(b) Al	l Other	Design Costs				312
(c) To	otal					936
(d) Co	ntract					780
(e) In	i-house					156
(4) Const	ruction	Contract Award				16 FEB
(5) Const	ruction	Start				16 MAR
(6) Const	ruction	Completion				17 SEP
* 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. Equipmen N/A	nt assoc:	iated with this proj	ect pro	ovided from c	other appropri	ations:
DD FORM 1391, 1	DEC 99	Previous ed:	tions	are obsolete.	. P	age No.

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION	PROJECT DA	ГА	2. DATE	
AIR FORCE		(c	omputer gen	erate	d)			
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	:		
ALTUS AIR FORCE	BASE			DORMITORY (120 RM)				
ALTUS AIR FORCE OKLAHOMA	BASE	SITE # 1						
5. PROGRAM ELEM	5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT				CT NUMBER	8. PROJECT	COST (\$000)	
85976 721-312 1361				/AGGN123003			18,000	
9. COST ESTIMATES								
ITEM					QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILIT	IES					11,919		
PERMANENT PART	Y DORM	ITORY		SM	3,960	2,951	(11,686)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS	İ		(233)	
SUPPORTING FACII	LITIES					ĺ	3,564	
UTILITIES				LS			(750)	
SITE IMPROVEMEN	NTS			LS			(500)	
COMMUNICATIONS				LS			(554)	
PAVEMENTS				LS			(525)	
DEMOLITION				SM	4,410	280	(1,235)	
SUBTOTAL							15,483	
CONTINGENCY	(5.0%))					774	
TOTAL CONTRACT (COST						16,257	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				927	
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	UBTOTAL)				619	
TOTAL REQUEST							17,803	
TOTAL REQUEST (F	ROUNDE	D)					18,000	
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				977	
10. Descripti economical des	on of	Proposed Construction me	ction: Con ethods to a	nstru accom	ct a four- modate the	story dormi mission of	tory using the	
facility. The	e faci	lity should be con	mpatible w	ith a	pplicable	DoD, Air Fo	rce, and	
base design st	andar	ds. In addition, 1	local mate:	rials	and const	ruction tec	hniques	
facility with	vnere	orced concrete for	ndation	struc	slabs. co	ncrete masc	er-equipped	
exterior walls	, and	standing-seam met	al roof s	ystem	. Include	s Dorm-4-Ai	rmen	
modules, laund	lries,	storage, lounge a	area, comm	unica	tions supp	ort, utilit	ies,	
interior finis	hes,	roads, parking, si	ite improv	ement	s, and all	necessary	supporting	
facilities for	aco	mplete and usable	facility.	Dem	olishes tw	o facilitie	s (4,410	
DOD Unified Fa	s wii cilit	ies Criteria (UFC)) 1-200-01	const . Th	is project	will compl	with the	
antiterrorism/	force	protection requir	rements pe	r UFC	4-101-01.		, «1011 202	
Air Conditioni	ng:	110 Tons Grade Mi	x: E1-E4	120				
11. Requiremen	it: 39	60 SM Adequate:	: 0 SM	Subst	andard: 33	66 SM		
PROJECT: Dorm	itory	(120 PN). (Currer	nt Mission)				
REQUIREMENT:	As a	major objective, t	he US Air:	Forc	e provides	housing co	nducive to	
Airmen's prope	r res	t, relaxation and	personal	well-	being. Pr	operly desi	gned,	
constructed an	d fur	nished quarters pr	coviding s	uffic	ient indiv	vidual priva	cy are	
essential to t	he su	ccessful accomplis	shment of t	the c	ritical an	d demanding	missions	
CHESE ATTIMEN 6	Aecut	e. INTE Projecci	rs redutte	u 10	reprace II	.er z uormit	OT TED į	

DD FORM 1391, DEC 99 Previous editions are obsolete.

1. COMPONENT	FY 2016 MILI	FY 2016 MILITARY CONSTRUCTION PROJECT DATA				
AIR FORCE	(
3. INSTALLATION	3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE					
ALTUS AIR FORCE	ALTUS AIR FORCE BASE DORMITORY (120 RM)					
ALTUS AIR FORCE	BASE SITE # 1					
OKLAHOMA						
5. PROGRAM ELEM	IENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)			
85976	721-312	1361/AGGN123003	18,000			

defined as inadequate and unserviceable. This project will construct a replacement dorm that will provide unaccompanied enlisted personnel with housing conducive to proper rest, relaxation, and personal well-being. Construction will meet force protection criteria, including progressive collapse, blast protection, and standoff distances. This project is in accordance with the 2010 Air Force Dorm Master Plan (DMP) approved for Altus AFB.

CURRENT SITUATION: The 2010 Air Force DMP established the need for construction of one new dorm and demolition of two existing dorms at Altus Air Force Base. Currently, Altus AFB has three enlisted dormitories with space for 306 personnel, three day rooms, and three common use kitchenettes. All three dorms are over 25 years old and in Tier 2 condition. A separate project is currently underway to renovate one of the dorms, while this project will demolish one of the two required in the DMP. No major renovations to these dorms have occurred since their construction in the mid-1980s. The dorm slated for demolition in this project has been condemned due to the unsafe conditions posed by the deterioration of the building and is no longer in use. The other dorm continues to experience regular failures in the HVAC, plumbing and electrical systems. Lack of proper ventilation allows for the growth of mold. The failures in the plumbing system, which is beyond its useful life-cycle, pose health and safety risks to the residents. The standing seam metal roof is beyond its useful life-cycle and is cause for multiple leaks that must be repaired. Maintaining these facilities requires continuous maintenance and repair work. Additionally, these dorms do not meet antiterrorism and force protection requirements.

IMPACT IF NOT PROVIDED: Our enlisted airmen will continue to reside in deteriorating, substandard, energy-inefficient facilities that require constant maintenance and repair. As the building's age, the quality of living conditions for the airmen will decline, resulting in the degradation of morale, productivity and career satisfaction for unaccompanied enlisted personnel. Retention of these highly-trained personnel is essential to the success of the mission at Altus AFB. ADDITIONAL: This project meets the criteria and scope specified by Air Force Manual 32-1084, "Facility Requirements", the Dorm-4-Airmen Design Guide, and the AF Dorm Master Plan. All known alternatives were considered during the development of this project. An economic analysis is being prepared comparing the reasonable alternatives of new construction/replacement, renovation, and status quo. We anticipate, based on net present values and benefits of the respective alternatives, new construction will be the most cost-effective option. 2014 unaccompanied housing RPM conducted: \$587,000; FY2015 unaccompanied RPM planned: \$710,000. Future unaccompanied housing RPM planned: FY16: \$951,000; FY17: \$1,464,000. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: 580-481-6530, DSN 866-6530. 120 PN Enlisted Permanent Party Dorm: 3,960 SM = 42,625 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

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Page No.

requirements.

1. COMPONENT AIR FORCE	1. COMPONENTFY 2016 MILITARY CONSTRUCTION PROJECT DATA2. DATEAIR FORCE(computer generated)							
3. INSTALLATI	ON AND I	OCATION		4. PRO		TT.E		
ALTUS AIR FOR ALTUS AIR FOR OKLAHOMA	CE BASE CE BASE	SITE # 1		DORMITO	DRY (12)	0 RM)		
5. PROGRAM EL	EMENT	6. CATEGORY C	CODE 7. PF	OJECT N	UMBER	8. PROJECT	COST	(\$000)
85976		721-312	136	1/AGGN12	23003	1	.8,00	0
 12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Project to be accomplished by design-build procedures 								
 (2) Basis: (a) Standard or Definitive Design - NO 								
(b) Wh	ere Des	ign Was Most Re	cently Use	d -				
(3) All O	ther Des	ign Costs						720
(4) Const	ruction	Contract Award					16	FEB
(5) Const	ruction	Start					16	MAR
(6) Const	ruction	Completion					18	MAR
(7) Energ	y Study/	Life-Cycle anal	lysis was/v	will be	perform	med		YES
EQUIPMENI	NOMENC:	LATURE	PROCURING	APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)
FURNITURE	E, FIXTU	RES, AND EQUIP	3400)	2	2017		977

1. COMPONENT AIR FORCE		FY 2016 MILITARY CONSTRUCTION PROGRAM					М	2. DATE			
3. INSTALLATION A	AND LOC	ATION		4. COM	MAND:				5. AREA (CONST	
TINKER AIR FORCE	BASE			AIR FOR	CE MATE	RIEL			COST IND	EX	
OKLAHOMA				COMMA	ND:				0.91		
6. Personnel	PE	RMANENT		STU	JDENTS			SU	PPORTED		
Strength	OFF	ENL	CIV	OFF	ENL	CI	V	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	278	820	12475	0)	0	1028	4718	623	19,942
END FY 2010	275	825	12176	0)	0	983	4462	537	19,258
7. INVENTORY DATA (\$000)											
Total Acreage: 5,033											
Inventory Total as of : (30 Sep 14)								4,225,942			
Authorization Not Ye	t in Inven	tory:									176,262
Authorization Reque	sted in th	is Program	:								37,000
Planned in Next Fou	r Progran	n Years									179,000
Remaining Deficience	:y:										906,125
Grand Total:											5,524,329
8. PROJECTS REQ	UESTED	IN THIS F	ROGRA	M:			2016				
CATEGORY									COST	DESIGN	STATUS
CODE	PROJEC	<u>T TITLE</u>				<u>SCOPE</u> <u>\$,000</u>			\$,000	<u>START</u>	CMPL
149-962	Air Traffic	c Control T	ower			42 VM \$12,900			Design B	build	
211-116	KC-46A I	Depot Mair	ntenance	Dock		<u>t</u> Tot	5,110 al	<u>SM</u>	37,000	Design B	build
9a Euture Projects:	Typically	Planned N	lext Four	Years		100			01,000		
141-764	KC-46A I	Depot Syst	em Intea	ration I ah)	4	4 613	SM	17 000		
211-116	KC-46A I	Depot Jet F	naineTe	st Cell			2.521	SM	23.000		
211-116	KC-46A I	Depot Mair	tenance	Hangar		30	0.077	SM	139.000		
		[Tot	al		179,000		
9b. Real Property M	laintenand	ce Backlog	This Inst	allation:	(\$M)						563
10. Mission or Major	r Functior	ns: Tinker A	Air Force	Base com	nbined mis	sion i	nclude	es operat	tions, suppl	ly, mainte	nance and
management in supp	oort of the	76th Main	tenance	Wing, 552	2nd ACW,	327th	n Air S	ustainme	ent Wing, 4	48th Com	ibat
Sustainment Wing, 3	Brd Comba	at Comm, <i>i</i>	Air Force	Reserves	s, Navy Str	atcor	nm Wi	ing One,	72nd Air B	ase Wing	, Defense
Logistics Agency and	d Defense	e Informatio	on Systen	ns Agenc	у.			-		-	
11. Outstanding poll	lution and	I Safety (O	SHA) Def	ficiencies:							
a. Air pollution									0		
b. Water Pollutio	on								0		
c Occupational	Safety ar	nd Health							0		
o. Cocupational	callety al								0		
d. Other Environ	mental								0		

DD Form 1390, 24 Jul 00

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION	PROJECT DA	ГА		2. DATE
AIR FORCE		(c	omputer gen	erate	d)			
3. INSTALLATION	, SITE	AND LOCATION		4. PF	OJECT TITLE	5		
TINKER AIR FORC	E BASE	:		AIR TRAFFIC CONTROL TOWER				
TINKER AFB SITE	# 1							
OKLAHOMA		c				0 DD0 TROM		
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/				PROJEC	T NUMBER	8. PROJECT	CC	JST (\$000)
72976 149-962 3342					/WWYK093003 12,900			
9. COST ESTIMATES								
ITEM				U/M	QUANTITY	UNIT		COST (\$000)
								5 765
CONTROL TOWER	(149-9	62)		VM	42	117,200		(4,922)
STMULATION BUT		(141-453)		SM	49	6,837		(335)
TORNADO SHELTE	R (738	- 401)		SM	75	4,860		(365)
SUSTAINABILITY	AND E	NERGY MEASURES		LS		-,		(143)
SUPPORTING FACII	LITIES							5,468
UTILITIES				LS				(850)
SITE IMPROVEMEN	TS			LS				(760)
DRILLED PIERS				LS				(340)
COMMUNICATIONS				LS				(392)
DEMOLITION PAR	KING			LS				(26)
DEMOLITION - EX	XISTIN	G CONTROL TOWER		VM	31	10,500		(326)
PAVEMENTS				LS				(1,174)
EMERGENCY GENE	RATORS			LS				(500)
ELEVATOR				LS				(500)
ACCESS ROADWAY				LS				(600)
SUBTOTAL								11,233
CONTINGENCY	(5.0%))						562
TOTAL CONTRACT (COST							11,795
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)					672
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	UBTOTAL)					449
TOTAL REQUEST								12,916
TOTAL REQUEST (F	ROUNDE	D)						12,900
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)					1,350
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ct an Air	Traffic Co	ntı	rol Tower
to include rei	nforc	ed concrete drille	ed piers,	found	ation, flo	or slab, s	upj	porting
superstructure	, con	trol tower cab wit	th tinted	doubl	e glazing,	elevator,		
supervision,	and s	imulation training	g areas.	The f	acility wi	ll be desig	gne	ed as
permanent cons	truct	10n 1n accordance	with UFC	1-200	-01. Incl	udes fire j	pro	otection
and drainage,	acces	s road and parking	area, and	, cor d oth	er necessa	rv support	f	or a
complete and u	seabl	e facility. Comply	y with DoD	Anti	terrorism/	Force Prote	ect	tion per
unified facili	ties	criteria 4-010-01	to includ	e res	isting pro	gressive co	01	lapse.
Communications	will	connect to a prin	mary Inform	matio	n Transfer	Node (ITN) a	and a
secondary ITN	back	up. Demolish exist	ing contro	ol to	wer.			
Air Conditioni	ng:	24 Tons						
11. Requiremen	t: 42	VM Adequate: ()VM Su	bstan	dard: 31 V	'M		
1								

1. COMPONENT ATR FORCE

TINKER AIR FORCE BASE TINKER AFB SITE # 1

3. INSTALLATION, SITE AND LOCATION

4. PROJECT TITLE AIR TRAFFIC CONTROL TOWER

OKLAHOMA			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
72976	149-962	3342/WWYK093003	12,900

PROJECT: Air Traffic Control Tower. (Current Mission)

REQUIREMENT: An air traffic control tower is required to provide air traffic controllers a clear view of the airfield runways, traffic patterns, restricted areas and parking areas to ensure adequate and safe airborne and ground traffic control on and around the airfield. Provide adequate space for crew briefings, personnel training, electronic equipment maintenance, radio and telephone support equipment, environmental control equipment, and controller administrative functions.

CURRENT SITUATION: The existing control tower, Bldg 935, was designed and built in 1970 and provides less than 50 percent of the required space to support today's mission. The structural, mechanical, and electrical components of the control tower have deteriorated to the point that repairs are often required. The control tower, as currently sited, violates the current Air Force siting criteria since it is less than 1000 feet from the runway centerline. The building is substandard and is not adequate to allow renovation to incorporate all current control tower functions. A Risk Assessment Code (RAC) 2 and a Fire Safety Deficiency Code (FSDC) II have been assigned to the existing control tower. It is not practical to renovate the existing control tower cab in order to comply with the current Life and Fire Safety standards and seismic requirements. Presently, training is accomplished concurrently with day-to-day operations in the tower cab and at the base of the tower in the Control Tower Simulator building. The tower cab, by today's standards, is too small and cramped to accommodate all the occupants. There is insufficient space to carry out administrative, operational and training functions associated within the tower operations area.

IMPACT IF NOT PROVIDED: The control tower will continue to violate Air Force siting criteria and life safety codes. Flight safety of the warfighter will be compromised as it is today and delays related to movements of aircraft and vehicles on the airfield will continue. Training will be substandard due to overcrowded conditions.

ADDITIONAL: This project meets the criteria/scope specified in the AFM 32-1084, "Facility Requirements". Sustainable principles to include life cycle cost effective practices will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02. This project shall comply with National Fire Protection Association, NFPA, Life Safety Code, NFPA 101.and the Air Force Air Traffic Control Tower Design Guide. A waiver from an economic analysis is approved dated 25 May 09 because there is only one method possible to accomplish this objective. Base Civil Engineer: (405) 734-3451. Control Tower: 42 vertical meters = 138 vertical feet; Simulation Building: 49 SM = 528 SF; 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.

Previous editions are obsolete.

KLAHOMA					
. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT N	UMBER	8. PROJECT	COST (\$000)
72976	149-962	3342/WWYK09	3003	1	L2,900
2. SUPPLEMENTAL DATA:					
a. Estimated Design 1	Data:				
(1) Project to be a	accomplished by d	lesign-build pr	cocedure	s	
(2) Basis: (a) Standard or (b) Where Design	Definitive Design Was Most Recen	gn - tly Used -			NO
(3) All Other Desig	yn Costs				516
(4) Construction Co	ontract Award				16 FEB
(5) Construction St	art				16 APR
(6) Construction Co	ompletion				17 AUG
(7) Energy Study/Li	ife-Cycle analysi	s was/will be	perform	ned	YES
b. Equipment associat	ted with this pro	oject provided OCURING APPRC	from o FISCA APPROI	ther approp L YEAR PRIATED	priations: COST
b. Equipment associat EQUIPMENT NOMENCLA	ted with this pro PRO TURE	Diect provided	from o FISCA APPROI OR REQ	ther approp L YEAR PRIATED QUESTED	cost (\$000
b. Equipment associat EQUIPMENT NOMENCLA FURNITURE	ted with this pro PRO TURE WITCHES	Digect provided DCURING APPRC 3400 3080	from o FISCA APPROI OR REQ 20	ther approp L YEAR PRIATED QUESTED 017	cost (\$000 120 30
b. Equipment associat EQUIPMENT NOMENCLA FURNITURE A6 COMMUNICATION A COMMUNICATIONS	ted with this pro PRO TURE WITCHES	Diect provided DCURING APPRC 3400 3080 3080	from o FISCA APPROI OR REG 20 20 20	ther approp L YEAR PRIATED QUESTED 017 017	riations: COST (\$000 120 30 480
b. Equipment associat EQUIPMENT NOMENCLA FURNITURE A6 COMMUNICATION A COMMUNICATIONS INITIAL OPERATING	ted with this pro PRO TURE WITCHES EQUIPMENT	DCURING APPRC 3400 3080 3080 3400	from o FISCA APPROI OR RE(20 20 20 20 20 20 20 20 20 20 20 20 20	ther approp L YEAR PRIATED QUESTED 017 017 017	riations: COST (\$000 120 30 480 680
b. Equipment associat EQUIPMENT NOMENCLA FURNITURE A6 COMMUNICATION A COMMUNICATIONS INITIAL OPERATING UNINTERRUPTIBLE PO	ted with this pro PRO TURE WITCHES EQUIPMENT WER SOURCE	Dject provided OCURING APPRC 3400 3080 3080 3400 3080	from o FISCA APPROI OR RE(20 20 20 20 20 20 20 20 20 20 20 20 20	ther approp L YEAR PRIATED QUESTED 017 017 017 012 012	cost (\$000 120 30 480 680 40
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b. Equipment associat EQUIPMENT NOMENCLA FURNITURE A6 COMMUNICATION A COMMUNICATIONS INITIAL OPERATING UNINTERRUPTIBLE PO	ted with this pro PRO TURE WITCHES EQUIPMENT WER SOURCE	Dject provided OCURING APPRC 3400 3080 3080 3400 3080	from o FISCA APPROI OR RE(2) 2) 2) 2) 2) 2) 2) 2)	ther approp PRIATED QUESTED 017 017 012 017	riations: COST (\$000 120 30 480 680 40
b. Equipment associat EQUIPMENT NOMENCLA FURNITURE A6 COMMUNICATION A COMMUNICATIONS INITIAL OPERATING UNINTERRUPTIBLE PO	ted with this pro PRO TURE WITCHES EQUIPMENT WER SOURCE	Dject provided OCURING APPRC 3400 3080 3080 3400 3080	from o FISCA APPROI OR RE(20 20 20 20 20 20	ther approp L YEAR PRIATED QUESTED 017 017 012 017	cost (\$000 120 30 480 680 40
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b. Equipment associat EQUIPMENT NOMENCLA FURNITURE A6 COMMUNICATION A COMMUNICATIONS INITIAL OPERATING UNINTERRUPTIBLE PO	ted with this pro PRO TURE WITCHES EQUIPMENT WER SOURCE	Dject provided 3400 3080 3080 3400 3080	from o FISCA APPROI OR RE(20 20 20 20 20 20	ther approp L YEAR PRIATED QUESTED 017 017 012 017	priations: COST (\$000 120 30 480 680 40

1. COMPONENT								
AIR FORCE		(c	omputer gen	erate	d)			
3 INSTALLATION	STTR			4 DE	0.TECT TTT.			
TINKER AIR FORC	E BASE	I AND LOCATION		KC-46	A DEPOT MAI	NTENANCE DOC	ĸ	
TINKER AFB SITE	# 1	-						
OKLAHOMA								
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/				PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
41221 211-116 3342					/WWYK163002 37,000			
		9. C	OST ESTIMA	TES				
ITEM				U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILITIES							15,414	
DEPOT MAINTENAN	NCE DO	CK	SM	5,110	2,838	(14,502)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(302)	
SPECIAL FOUNDAT	TIONS			LS			(610)	
SUPPORTING FACII	LITIES						16,969	
UTILITIES: ELEC	CTRIC	SERVICE		LS			(1,366)	
UTILITIES: WAT	rer, s	EWER, GAS, AND STORM	ſ	LS			(1,014)	
UTILITIES: STEA	AM & C	HILLED WATER DISTRIE	UTION	LS			(1,684)	
UTILITIES: COM	MUNICA	TION		LS			(474)	
SITE IMPROVEMEN	NTS			LS			(1,011)	
PASSIVE FORCE I	PROTEC	TION		LS			(245)	
PAVEMENTS, WALK	ks, CU	RBS, ETC.		LS			(7,795)	
FUEL STORAGE TA	anks,	FUEL PIT, PIPING		LS			(3,380)	
SUBTOTAL							32,383	
CONTINGENCY	(5.0%)					1,619	
TOTAL CONTRACT (COST						34,002	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				1,938	
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	SUBTOTAL)				1,295	
TOTAL REQUEST							37,236	
TOTAL REQUEST (F	ROUNDE	D)					37,000)	
EQUIPMENT FROM (THER	APPROPRIATIONS (NON-	ADD)				(8,719	
EQUIPMENT FROM C	on of	APPROPRIATIONS (NON- Proposed Construc	ADD)	nstru	ct a singl	Le-bay depo	(8,719 t aircraft	
maintenance fa	cilit	y. The facility a	should be	compa	tible with	n applicabl	a DoD, Air	
Force, and bas	e des	ign standards. In	n addition	; loc	al materia	als and con	struction	
techniques sha	ll be	used where cost e	effective.	Inc	ludes clea	aring and g	rading site,	
storm drainage	truct	ure systems. elect	tion, air	crait For	sewer con	munication	c area, s roads	
liquid fuel st	orage	e tanks, aircraft f	Euel pipin	a, hy	drant fuel	ling pit, a	nd all other	
supporting fac	iliti	es. Facility will	l be design	ned a	s permaner	nt construc	tion in	
accordance wit	h Dol	unified facilitie	es criteria	a - U	FC 1-200-0	01. This p	roject will	
comply with Do	D ant	iterrorism/force p	protection	requ	irements p	per unified	facilities	
criteria - UFC	4-01	.0-01.						
Air Conditioni	ng:	100 Tons						
11. Requiremen	t: 17	210 SM Adequate	e: 12100 S	М	Substandar	rd: 0 SM		
PROJECT: KC-4	6A De	pot Maintenance Do	ock. (New	Miss	ion)			
REQUIREMENT:	Tinke	er AFB currently su	upports de	pot m	aintenance	e for multig	ple USAF	
aircraft and h	as be	en designated sour	rce or rep	aır f	or the dep	pot mainten	ance of the	

DD FORM 1391, DEC 99 Previous editions are obsolete.

1. COMPONENT	FY 2016 MILIT	DATA 2. DATE	
AIR FORCE	(c		
3. INSTALLATION,	TLE		
TINKER AIR FORCE	MAINTENANCE DOCK		
TINKER AFB SITE	# 1		
OKLAHOMA			
5. PROGRAM ELEME	ENT 6. CATEGORY CODE	TEGORY CODE 7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
41221	211-116	37,000	

KC-46A aircraft. A depot maintenance dock is required to provide a reliable and responsive source for repair and maintenance for these first line weapon systems. The first aircraft will arrive at Tinker for phased depot maintenance by early-2018. Full production is projected to be 90 aircraft per year. This project will provide a second maintenance dock and supporting infrastructure to enable meeting this future workload.

<u>CURRENT SITUATION:</u> Neither infrastructure nor adequate maintenance docks are currently available at this site to support the future KC-46A depot maintenance workload. Phased depot maintenance ensures aircraft are properly, timely, and efficiently maintained & repaired to ensure safety for the pilots and longevity of the aircraft.

<u>IMPACT IF NOT PROVIDED:</u> Failure to construct this project would critically impact the Air Force's ability to quickly, safely, and efficiently repair and maintain this new weapon system. Phased depot maintenance is critical to the KC-46A mission.

ADDITIONAL: This project meets the criteria/scope specified in the Air Force Manual 32-1084, "Facility Requirements". All known alternative options were considered during the development of this project. No other option could meet the mission requirements. A certificate of exception has been prepared. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02 dated 1 March 2013. Base Civil Engineer: (405) 734-3451. Depot Maintenance Dock; 5,110 SM = 55,000 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.

	6 CATECORY COT			CT COST (\$000)						
41221	211-116	3342/WWYK16	53002	37-000						
TIGGI	211-110	5542/ WIRT	55002	57,000						
2. SUPPLEMENTAL DATA:										
a. Estimated Design	Data:	a								
(1) Project to be	accomplished by	design-build pr	rocedures							
(2) Dasis. (a) Standard on (b) Where Desig	r Definitive Des yn Was Most Rece	ign - ntly Used -		NO						
(3) All Other Design Costs				1,480						
(4) Construction Contract Award				16 FEB						
(5) Construction Start				16 MAR						
(6) Construction Completion				18 MAR						
(6) Construction C	omprecion									
(6) Construction C(7) Energy Study/Lb. Equipment associa	ife-Cycle analys ited with this p	sis was/will be roject provided ROCURING APPRC	performed from other appr FISCAL YEAR APPROPRIATED	YES ropriations: COST						
(6) Construction C(7) Energy Study/Lb. Equipment associaEQUIPMENT NOMENCLA	ife-Cycle analys ated with this p ATURE	sis was/will be roject provided ROCURING APPRC	performed from other appr FISCAL YEAR APPROPRIATED OR REQUESTED	YES ropriations: COST (\$000						
 (6) Construction C (7) Energy Study/L b. Equipment associa EQUIPMENT NOMENCL2 FURNISHINGS 	ife-Cycle analys ted with this p NTURE	sis was/will be roject provided ROCURING APPRC 3400	performed from other appr FISCAL YEAR APPROPRIATED OR REQUESTED 18	YES ropriations: COST (\$000 75						
 (6) Construction C (7) Energy Study/L b. Equipment associat EQUIPMENT NOMENCLATION FURNISHINGS COMPUTERS 	ife-Cycle analys ated with this p ATURE	sis was/will be roject provided ROCURING APPRC 3400 3400	performed from other appr FISCAL YEAR APPROPRIATED OR REQUESTED 18 18	YES ropriations: COST (\$000 75 23						
 (6) Construction C (7) Energy Study/L b. Equipment associa EQUIPMENT NOMENCLA FURNISHINGS COMPUTERS COMMUNICATIONS DEPEGONAL DECEMPENT 	ife-Cycle analys ated with this p ATURE	sis was/will be roject provided ROCURING APPRC 3400 3400 3400	performed from other appr FISCAL YEAR APPROPRIATED OR REQUESTED 18 18 18 18	YES ropriations: COST (\$000 75 23 109						
 (6) Construction C (7) Energy Study/L b. Equipment associa EQUIPMENT NOMENCLA FURNISHINGS COMPUTERS COMMUNICATIONS PERSONAL PROTECTIVACE SE STANDS TEST 	ife-Cycle analys ited with this p ATURE /E EQUIPMENT	sis was/will be roject provided ROCURING APPRC 3400 3400 3400 3400 3010	performed from other appr FISCAL YEAR APPROPRIATED OR REQUESTED 18 18 18 18 18 18	YES ropriations: COST (\$000 75 23 109 12 8 500						
 (6) Construction C (7) Energy Study/L b. Equipment associa EQUIPMENT NOMENCLA FURNISHINGS COMPUTERS COMMUNICATIONS PERSONAL PROTECTIVAGE, SE, STANDS, TEST 	ife-Cycle analys ated with this p ATURE /E EQUIPMENT TERS,TOOLING	sis was/will be roject provided ROCURING APPRC 3400 3400 3400 3400 3400 3010	performed from other appr FISCAL YEAR APPROPRIATED OR REQUESTED 18 18 18 18 18 18 18	YES ropriations: COST (\$000 75 23 109 12 8,500						
 (6) Construction C (7) Energy Study/L b. Equipment associa EQUIPMENT NOMENCLA FURNISHINGS COMPUTERS COMMUNICATIONS PERSONAL PROTECTIVAGE, SE, STANDS, TEST 	ife-Cycle analys ated with this p MATURE VE EQUIPMENT TERS,TOOLING	sis was/will be roject provided ROCURING APPRC 3400 3400 3400 3400 3010	performed from other appr FISCAL YEAR APPROPRIATED OR REQUESTED 18 18 18 18 18 18	YES ropriations: COST (\$000 75 23 109 12 8,500						
 (6) Construction C (7) Energy Study/L b. Equipment associa EQUIPMENT NOMENCLA FURNISHINGS COMPUTERS COMMUNICATIONS PERSONAL PROTECTIVAGE, SE, STANDS, TEST 	ife-Cycle analys ated with this p ATURE VE EQUIPMENT TERS,TOOLING	sis was/will be roject provided ROCURING APPRC 3400 3400 3400 3010	performed from other appr FISCAL YEAR APPROPRIATED OR REQUESTED 18 18 18 18 18 18 18	YES ropriations: COST (\$000 75 23 109 12 8,500						
 (6) Construction C (7) Energy Study/L b. Equipment associa EQUIPMENT NOMENCLA FURNISHINGS COMPUTERS COMMUNICATIONS PERSONAL PROTECTIVAGE, SE, STANDS, TESS 	ife-Cycle analys ated with this p ATURE /E EQUIPMENT TERS,TOOLING	sis was/will be roject provided ROCURING APPRC 3400 3400 3400 3400 3010	performed from other appr FISCAL YEAR APPROPRIATED OR REQUESTED 18 18 18 18 18 18	YES ropriations: COST (\$000 75 23 109 12 8,500						
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 (6) Construction C (7) Energy Study/L b. Equipment associa EQUIPMENT NOMENCL2 FURNISHINGS COMPUTERS COMMUNICATIONS PERSONAL PROTECTIVAGE, SE, STANDS, TEST 	ife-Cycle analys ated with this p ATURE /E EQUIPMENT FERS,TOOLING	sis was/will be roject provided ROCURING APPRC 3400 3400 3400 3010	performed from other appr FISCAL YEAR APPROPRIATED OR REQUESTED 18 18 18 18 18 18 18	YES ropriations: COST (\$000 75 23 109 12 8,500						
 (6) Construction C (7) Energy Study/L b. Equipment associa EQUIPMENT NOMENCLA FURNISHINGS COMPUTERS COMMUNICATIONS PERSONAL PROTECTIVAGE, SE, STANDS, TESS 	ife-Cycle analys ated with this p ATURE /E EQUIPMENT TERS,TOOLING	sis was/will be roject provided ROCURING APPRC 3400 3400 3400 3010	performed from other appropriated OR REQUESTED 18 18 18 18 18 18 18	YES ropriations: COST (\$000 75 23 109 12 8,500						
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1. COMPONENT AIR FORCE		F	FY 2016 MILITARY CONSTRUCTION PROGRAM 2. DATE							
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3. INSTALLATION A ELLSWORTH AIR F SOUTH DAKOTA	AND LOCA ORCE BA	ATION: .SE		4. COMN AIR COM	/AND: IBAT CON	MMAND		5. AREA COST IN 0.98	CONST DEX	
6. Personnel	PEF	RMANEN		STU	DENTS		SUF	PPORTED)	
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	380	2859	565	2	6	0	2	30	102	3,946
END OF FY 2019	380	2859	565	2	6	0	2	30	102	3,946
 7. INVENTORY DA a. Total Acreage: b. Inventory Total as 	TA (\$000) 6,180 6 of : (30 \$	Sep 14)								1,720,530
c. Authorization Not	Yet in inv	entory:		040)						0
d. Authorization Rec	uested in	this Prog	ram: (FY2	2016)						23,000
e. Planned in Next F		Program:								121 800
a Grand Total:	incy.								-	1 865 330
g. Oranu rotai.										1,000,000
8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016) CATEGORY COST_DESIGN_S									STATUS	
CODE	PROJEC	TTITLE SCOPE \$.000 START							CMPL	
721-312	Dormitory	′ (168 RM)			5,544 TOTAL	SM	23,000	May-14	Sep-15
9a. Future Projects:	Typical F	lanned N	ext Four `	Years:						
	NONE					TOTAL		0		
9b. Real Property M	aintenanc	e Backloo	This Inst	allation: (S	5M)					321.1
10. Mission or Maior	r Function	s: Air Coi	, nbat Corr	nmand: a t	omb wind	and hom	ne to the 3	34th Bomb	Squadror	(B-1Bs).
37th Bomb Squadror	n (B-1Bs),	432nd At	tack Squa	adron (MQ	-9s), and	28th Ope	rations Su	ιpport Sqι	uadron.	
11. Outstanding Pol a. Air Pollution	lution and	Safety (C	SHA Def	iciencies):				0		
b. Water Pollutio	n							0		
c. Occupational	Safety and	d Health						0		
d. Other Environ	mental							0		

1. COMPONENT		FY 2016 MTI.TT	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE
AIR FORCE		(c	omputer gen	erate	d)		
3 INSTALLATION	STTR	AND LOCATION		4 DI		2	
ELLSWORTH AIR F	ORCE E	BASE		DORMI	TORY (168 F	- 2M)	
ELLSWORTH AFB S	ITE #	1					
SOUTH DAKOTA							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)
27576		721-312	1711,	FXBM0	23,000		
		9. C	OST ESTIMA	TES		·	
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
DORMITORY (168 F	RM)						14,860
DORMITORY				SM	5,544	2.628	(14,568)
SUSTATNABTI TY	AND E	NERGY MEASURES		LS	5,511	2,020	(14,300)
SUPPORTING FACTO							(<u>2</u> 5 <u>2</u>)
				1 7 0			(956)
DAVEMENTS				T.S			(1 082)
SITE IMPROVEMEN	ITS			LS			(884)
DEMOLITION				SM	4,818	192	(923)
OVEREXCAVATION	& ENG	INEERED FILL		LS			(530)
COMMUNICATION	SUPPOR	Т		LS			(513)
GROUND SOURCE H	HEAT P	UMP		EA	1	650,000	(650)
SUBTOTAL						-	20,298
CONTINGENCY	(5.0%))					1,015
TOTAL CONTRACT (COST					-	21,313
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				1,215
TOTAL REQUEST						-	22,528
TOTAL REQUEST (F	ROUNDE	D)					23,000
EQUIPMENT FROM (THER	APPROPRIATIONS (NON-	ADD)				1,704
10. Descripti	on of	Proposed Construc	ction: Th	ree-s	tory build	ling with re	inforced
concrete found	ation	and floor slabs,	insulated	exte	rior masor	nry walls, s	tanding
pavements, lan	dscar	ing, site improver	ments, enq	ineer	ed fill to	counteract	expansive
clay soils, gr	ound	source heat pump i	for heat s	ource	, demolish	n one facili	ty (4,818
SM), and all n	ecess	ary support. For	ce protect	ion m	easures in	ncludes rein	forced
exterior walls	and	fully laminated wi	indows. F	acili	ties will	be designed	as
permanent cons	truct	ion in accordance	with the :	DoD U	nified Fac	cilities Cri	teria (UFC)
requirements p	er UF	C 4-101-01.	WICH DOD a	nuice	riorism/ic	bree protect	1011
Air Conditioni	ng:	200 Tons Grade Mi	ix: E1-E4	168			
11. Requiremen	t: 55	44 SM Adequate	: 0 SM	Subst	andard: 48	318 SM	
PROJECT: Cons	truct	a Dormitory (168	RM). (Cu	rrent	Mission)		
REQUIREMENT:	This	project is require	ed to impl	ement	the CSAF	's goal to r	ecapitalize
all Tier 2 dor	all Tier 2 dorms. Tier 2 dorms are those that are degraded as recorded in the Dorm						
Master Plan dated 5 Mar 2012. This project will provide unaccompanied enlisted							
personnel with	personnel with housing conducive to their proper rest, relaxation, and personal						
well-being. P	roper	ry designed and fu	urnished q shment of	uarte the i	ncreasing	ing individu lv complicat	aı privacy ed and
important jobs	important jobs our airmen must perform.						
DD FORM 1391,	DEC 9	9 Previou	us editions	s are	obsolete.		Page No.

1. COMPONENT AIR FORCE	FY 2016 MILI (FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE (computer generated)							
3. INSTALLATION, ELLSWORTH AIR F(ELLSWORTH AFB S: SOUTH DAKOTA	ION, SITE AND LOCATION 4. PROJECT TITLE R FORCE BASE DORMITORY (168 RM) B SITE # 1								
5. PROGRAM ELEMI	ENT 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)						
27576	721-312	1711/FXBM063002 23,000							

<u>CURRENT SITUATION:</u> The Air Force Dormitory Master Plan established the need for a replacement dormitory. Facility condition assessments determined Ellsworth's dormitories are degraded. This project is prioritized in accordance with the Air Force Dormitory Master Plan.

IMPACT IF NOT PROVIDED: Adequate living quarters at a level of privacy required for today's airman will not be available, resulting in degradation of morale, productivity, and career satisfaction for unaccompanied enlisted personnel. The existing facilities will continue to deteriorate due to their age resulting in increased maintenance costs and a decreased quality of life for occupants. ADDITIONAL: Support costs are higher than typically seen at other installations due to existing soil conditions at Ellsworth. Also, support costs include funds for construction of a ground source heat pump to make the facility more energy efficient and to take advantage of the natural heat-exchanging capability of the soil. This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. 2014 unaccompanied housing RPM conducted: \$44,800; FY2015 unaccompanied RPM planned: \$42,500. Future unaccompanied housing RPM planned: FY16: \$42,500; FY17: \$42,500. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: 605-385-2658. (Dormitory: 5,544 SM = 59,675 SF)

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

1. COMPONENT AIR FORCE		FY 2016 MILITARY	CONSTRU	UCTION PROJ nerated)	JECT	DATA	2	. DATE
3. INSTALLATIC	N AND T	OCATION			ד די	יד.ד		
ELLSWORTH AIR	FORCE E	BASE		DORMITORY	(168	RM)		
ELLSWORTH AFB	SITE #	1		DOMITIONI	(100	, 101)		
SOUTH DAKOTA								
5. PROGRAM ELI	IMENT	6. CATEGORY COD	Z 7. P	ROJECT NUMB	BER	8. PROJECT CC)ST	(\$000)
27576		721-312	171	1/FXBM06300	02	23,	,000)
12. SUPPLEMEN	TAL DAT	A:						
a. Estimated	l Design	n Data:						
(1) Projec	t to be	accomplished by	design-	build proce	edure	25		
(2) Basis: (a) Sta (b) What	andard o ere Des:	or Definitive Desi ign Was Most Recer	.gn - ntly Use	ed -				NO
(3) All Ot	her Des	ign Costs						690
(4) Constr	uction	Contract Award					16	FEB
(5) Constr	uction	Start					16	MAR
(6) Constr	ruction	Completion					18	MAR
(7) Energy	Study/	Life-Cycle analys	is was/	will be per	rform	ned		YES
b. Equipment	associ	iated with this pr	oject p	provided fr	om o	ther appropri	ati	.ons:
EQUIPMENT	NOMENCI	PR	OCURING	F APPRC AN O	FISCA PPROI R REQ	L YEAR PRIATED QUESTED		COST (\$000)
FURNITURE			340	0	2	017		1,584
COMMUNICA	TION EQ	UIPMENT	340	0	2	017		120

1. COMPONENT		F	FY 2016 MILITARY CONSTRUCTION PROGRAM 2. DATE							
AIR FORCE		<u> </u>								
3. INSTALLATION A	AND LOC/	ATION	I	4. COMN	/AND:			5. AREA	CONST	
JB SAN ANTONIO -	LACKLAN	ND AFB	I			AND			DEX	
TEXAS					G COMM/	AND	0.15	0.87		
6. Personnel				510	DENIS	<u> </u>	SUF)	
Strength		ENL 0.500		OFF	ENL	CIV				IOTAL
AS OF 30 SEP 14	697	3,500	3,051	653	9,776	10	1,634	1,557	5,708	32,586
		3,400	3,054	653	9,770	10	1,672	1,179	6,630	33,123
7. INVENTORY DA	TA (\$000)									
a. Total Acreage:	2,311	Con(14)								2 064 124
D. Inventory rotar as a Authorization Not	301: (30) Votin Inv	Sep 14)								2,964,124
 Authorization Not Yet in Inventory: Authorization Requested in this Program: (EY2016) 										257,011
		Drearom:	/am: (⊏1∠	2010)						100,000
e. Planneu in Next r		Program.								112,902
Crond Total:	incy.								-	190,011
g. Grand rotai.										4,294,214
8. PROJECTS REQ	UESTED	IN THIS F	ROGRA	M:		(FY 2016	5)			
CATEGORY	•=•					(,	COST	DESIGN	STATUS
CODE	PROJEC ⁻	T TITLE				SCOPE		\$.000	START	CMPL
171-621	BMT Clas	ssrooms/C	Dining Fac	cilitv 3		9,898	SM	35,000	May-14	Sep-15
721-311	BMT Rec	ruit Dormi	itorv 5			26,065	SM	71,000	May-14	Sep-15
						TOTAL	•	106,000		
9a. Future Projects:	Typical F	Planned in	Next Fou	ır Years:						
149-962	Air Traffic	Control 7	Tower			586	SM	9,800		
171-621	BMT Clas	ssrooms/C	Jining Fac	cility 4		5,891	SM	22,802		
721-311	BMT Rec	ruit Dormi	tory 6			26,065	SM	67,300		
721-311	BMT Rec	ruit Dormi	tory 7			26,065	SM	73,000	_	
						TOTAL		172,902	•	
					* = _\					
9b. Real Property M	aintenanc	e Backlog	1 This Inst	allation: (SM)		0		·	375
10. Mission or Major	r Function	s: A trainir	ng wing w	/hich inclue	des Basic	Military I	raining So	chool, Sec	curity Force	es, Combat
Convoy/Arms/Contro	J, Parares	scue, Surv	ival Evas	ion Resist	ance Esca	ape, Logis	stics, Enlis	sted Aircre	w, Service	€S,
Contracting, Vehicle	Maintena	nce, and M	Ailitary Ir	aining Inst	ructor, De	efense La	nguage In	istitute En	glish Lang	uage
Center, and Inter-An	herican Air	r Forces A	.cademy,	Departme	nt of Dete	nse Milita	iry Workin	ig Dog Ira	aining. Ad	ditional
missions include Air	Force Sec	curity Forc	es Cente	r, Recruitir	ng, crypto	graphic m	aintenand	ce, Air ⊦or	ce Reserv	e C-5
training, a major Air	Force med	dical cente	er, and Int	elligence/I	Reconnais	ssance/Su	irveillance	Operatio	ns.	
		2 () ((
11. Outstanding pollution and Safety (OSHA) Deficiencies:										
a. Air pollution								U		
- Motor Dollutic								0		
b. Water Poliutic	ึงท							U		
	Cofoty on							0		
c. Occupational Safety and Health										
d Other Environ	montal							0		
	Inentai							0		

1. COMPONENT		FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE									
AIR FORCE		(computer generated)									
3. INSTALLATION	, SITI	E AND LOCATION		4. PF	OJECT TITL	2	ł				
JOINT BASE SAN	ANTON:	IO - LACKLAND ASE SITE # 1		BMT C	LASSROOMS/I	DINING FACILI	TY PHASE 3				
TEXAS											
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PH	ROJECI	NUMBER	8. PROJECT	COST (\$000)				
85976		171-621	2461/MI	PLS083	73753	:	35,000				
		9.	COST ESTIMA	TES							
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)				
PRIMARY FACILIT	ES						26,708				
BMT CLASSDOOMS	(1716	(21)		см	4 846	2 725	(13 205)				
DINING & SERVE	(1/10 PV (72	2251)		SM	3,228	2,566	(8 283)				
KITCHEN BAKEP	V FOC	-2331) STORAGE (723385)		SM	1.824	2,566	(4,680)				
SUSTATNABILITY	AND F	NEDGY MEASURES		T.S	2,021	2,500	(539)				
SUPPORTING FACIL	LITIES	MERCI MEMORED					4,448				
STTE IMPROVEME	איזיכ			T.S			(981)				
UTTLITTES				T.S			(1.674)				
CHILLED AND HO	т WATE	R DISTRIBUTION PIP	ING	LS			(50)				
PAVEMENTS				LS			(1,040)				
SPECIAL DRILLE	D PIEF	FOUNDATION		LS			(435)				
COMMUNICATIONS INFRASTRUCTURE											
SUBTOTAL							31,156				
CONTINGENCY	(5	.0%)					1,558				
TOTAL CONTRACT (COST						32,714				
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				1,865				
TOTAL REQUEST							34,578				
TOTAL REQUEST (1	ROUNDE	D)					35,000				
EQUIPMENT FROM (THER	APPROPRIATIONS (NON	I-ADD)				1,793.0				
10 Descripti	on of	Proposed Constru	iction. Cor	letru	ction incl	udes a mult	i-story				
facility consi	sting	of a drilled pie	er foundatio	on, c	oncrete fl	oor slabs,	structural				
steel frame, m	asonr	y walls, standing	g seam metal	L roo	f, and an	elevator.	Areas				
include kitche	n, di	ning areas, and m	nultiple cla	assro	oms for th	e residents	of two				
Airmen Trainin	g Com	plexes (ATC). Co	ontinues the	e uti	lity and s	torm draina	ge				
infrastructure	. Pr	ovides all necess	sary support	and	restores	all areas d	isturbed by				
with the DoD U	nifie	d Facilities Crit	eria (UFC 1	-200	-01). Thi	s project w	vill comply				
with DoD antit	error	ism/force protect	ion require	ement	s per UFC	4-010-01.					
Air Conditioni	ng:	520 Tons									
11. Requiremen	t: 39	592 SM Adequat	e: 19796 SM	1	Substandar	d: 19796 SM	[
PROJECT: Cons	PROJECT: Construct Basic Military Training (BMT) Satellite Classroom/Dining										
REQUIREMENT	A mai	or Air Force obje	active is to	o pro	vide recru	its with fa	cilities				
conducive to their proper housing, dining, and training. Properly sized, sited.											
designed, and furnished facilities are essential to successfully train future Air											
Force enlisted	pers	onnel. This pro	ject provide	es th	e third of	four satel	lite dining				
hall/classroom	buil	dings in the Recr	uit Housing	g and	Training	(RH&T) faci	lity				
replacement pr	ogram	. Each satellite	facility wi	lll s	erve two n	ew recruit	dormitories				
DD FORM 1391,	DEC 9	9 Previo	us editions	are	obsolete.		Page No.				

 1. COMPONENT
 FY 2016 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 CLASSROOMS/DINING FACILITY PHASE 3
LACKLAND AIR FORCE BASE SITE # 1
TEXAS
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000)
85976 171-621 2461/MPLS083737S3 35,000

(~2500 recruits). This program replaces dining hall and classroom facilities that are currently located in the Basic Military Training Squadron dormitory buildings. The ground floor will consist of a serving area, a kitchen, and a dining area. Provides for laundry pickup and a minor clinic support area. The second and third floors will consist of classrooms. Pavements include parking and a delivery road. Companion project will be to construct the fifth of eight total dormitories, Project No. MPLS083737R5.

CURRENT SITUATION: RH&T facilities, the BMT program, and Lackland AFB form an initial, but lasting impression of the Air Force to all new recruits. Existing 220,000 SF RH&T facilities, originally constructed in the 1960's and 1970's, were designed to provide housing, dining, classrooms, and other training space in one facility in order to develop teamwork, discipline, and espirit de corps among the recruits. These facilities are outdated and are inadequate to support current and planned accessions of Air Force Active Duty, Reserve, and Air National Guard personnel considering future force structure and strength. Due to deterioration, age, and exceeding their useful life, the RH&Ts require significant O&M capital to keep them operational -- an estimated annual average of \$2.1M per RH&T (\$16.8M for the existing 8 RH&T facilities). BMT has difficulty accommodating summer recruit surges while accomplishing maintenance, repair and renovation projects of the aging, inadequate, and substandard RH&Ts. Recruits do not have the minimum standard square footage during surge and overhaul periods forcing as many as 65 recruits per flight in facilities designed for 50 recruits per flight. The existing classroom space in the RH&Ts is approximately one-half of what is needed. The mechanical, electrical, and lighting systems and interior finishes are at the end of their useful lives and require replacement. The food preparation and serving areas are currently located in each RH&T building and need to be centralized to improve efficiency and accommodate new equipment.

IMPACT IF NOT PROVIDED: Without quality BMT programs and adequate facilities, the Air Force will have difficulty recruiting, training, and retaining new recruits. Facilities will continue to age and will require increasingly more capital to keep them operational. During surge periods, or when existing RH&Ts are being repaired, maintained, or overhauled, flight sizes will increase and recruits will continue to live in space with less than the minimum standard square footage per recruit. ADDITIONAL: This project meets the criteria/scope specified in Air Force handbook 32-1084, "Standard Facility Requirements Handbook." The OSD dormitory standard does not apply as It is excluded as a recruit dormitory. A full Economic Analysis has been completed showing that new construction is the most viable method to meet this requirement. Sustainable principles, to include life cycle effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (210) 671-2977. BMT Classrooms: 4,846 SM = 52,161 SF; Dining and Servery: 3,228 SM =34,733 SF; Kitchen, Bakery, and Food Storage: 1,824 SM = 19,405 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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1. COMPONENT		FY 2016 MILITAR	RY CON	ISTRUC	LION	PROJECT	DATA	2. DATE
AIR FORCE		(com	nputer	gener	rated	1)		
3. INSTALLATI	ON AND L	OCATION			4. F	ROJECT	FITLE	
JOINT BASE SA LACKLAND AIR I TEXAS	N ANTONI FORCE BA	O – LACKLAND SE SITE # 1			BMT 3	CLASSROO	OMS/DINING FA	CILITY PHASE
5. PROGRAM EL	EMENT	6. CATEGORY CO	DDE 7	7. PRO	JECT	NUMBER	8. PROJECT C	OST (\$000)
85976		171-621	:	2461/M	PLS08	8373753	35	,000
12. SUPPLEMEN	TAL DATA	.:						
a. Estimate	d Design	Data:						
(1) Statu	s:							
(a) Da	te Desig	n Started	_		_		2	1-MAY-14
(b) Parametric Cost Estimates used to develop costs								YES
* (c) Pe	rcent Co	mplete as of 01	JAN	2015				15%
* (d) Da	te 35% I	Designed					3	1-MAR-15
(e) Da	te Desig	n Complete	_				3	0-SEP-15
(f) En	ergy Stu	dy/Life-Cycle a	nalys	is was	s/wil	l be per	formed	YES
(2) Pagig								
(2) Basis	• andard c	r Dofinitivo Do	aian	_				NO
(b) Wh	ere Desi	.gn Was Most Reco	ently	Used	-			NO
(3) Total	Cost (c	(a) = (a) + (b) o	r (d)	+ (e)	:			(\$000)
(a) Pr	oduction	of Plans and S	pecif	icatio	ons			500
(b) Al	1 Other	Design Costs	-					250
(c) To	tal	2						750
(d) Co	ntract							625
(e) In	-house							125
(4) Const	ruction	Contract Award						16 FEB
(5) Const	ruction	Start						16 MAR
(6) Const	ruction	Completion						18 MAR
* Indicat which i cost an	es compl s compar d execut	etion of Project able to tradition ability.	t Def onal	initic 35% de	on wi sign	th Param to ensu	etric Cost E re valid sco	stimate pe,
b. Equipmen	t associ	ated with this p	proje	ct pro	vide	d from c	other appropr	iations:
EQUIPMEN:	I NOMENC	LATURE	PR(APPR	OCURIN OPRIAT	G 'ION	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED	COST (\$000)
CLASSROOM	I FURNIS	HINGS		3400		2	2017	400
DINING FURNISHINGS 3400 2017							2017	1,284
ADPE 3400 2017							109	

1. COMPONENT		FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE		((computer gen	erate	d)					
3. INSTALLATION	, SIT	E AND LOCATION		4. PI	ROJECT TITLE	C	•			
JOINT BASE SAN	ANTON	IO - LACKLAND		BMT F	ECRUIT DORM	IITORY 5				
LACKLAND AIR FO	RCE B	ASE SITE # 1								
TEXAS		1								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PI	ROJECI	NUMBER	8. PROJECT	COST (\$000)			
85976		721-311	2461/MI	PLS083	737R5	-	71,000			
		9.	COST ESTIMA	TES						
						UNIT	COST			
		ITEM		U/M	QUANTITY		(\$000)			
PRIMARY FACILIT	IES						43,346			
RECRUIT DORMIT	ORY (1	L248 PN) (721311)		SM	21,121	1,617	(34,153)			
MTI ADMINISTRA	TIVE S	SPACE (171627)		SM	1,261	2,183	(2,753)			
TRAINING/FORMA	TION C	OPEN SPACE (171833)		SM	3,283	1,440	(4,728)			
WEAPONS CLEANI	NG PAV	VILION (171618)		SM	400	2,159	(864)			
SUSTAINABILITY	AND H	ENERGY MEASURES		LS			(850)			
SUPPORTING FACI	LITIES	5					20,969			
SITE IMPROVEME	NTS PI	LUS EISA/STORM WATER	R/PONDS	LS			(3,993)			
EXERCISE/DRILL	PAD A	AND RUNNING TRACK		LS			(3,100)			
UTILITIES				LS			(6,293)			
PAVEMENTS				LS			(1,000)			
SPECIAL DRILLE	D PIEH	R FOUNDATION		LS			(957)			
COMM INFRASTRU	CTURE	& RELOCATION		LS			(717)			
DEMOLISH FACIL	ITIES			SM	20,320	156	(3,162)			
RELOCATE RUNNI	NG TRA	AIL AND BASEBALL FI	ELD	LS			(800)			
WEST CAMPUS HA	UL ROU	JTE & FENCING		LS			(947)			
SUBTOTAL							64,315			
CONTINGENCY	(5	5.0%)					3,216			
TOTAL CONTRACT (COST						67,531			
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				3,849			
TOTAL REQUEST						-	71,380			
TOTAL REQUEST (ROUNDED)							71,000			
EQUIPMENT FROM (THER	APPROPRIATIONS (NON	I-ADD)				2,750.0			
10. Descripti	on of	Proposed Constru	uction: Con	istru	ct a Basic	Military T	raining			

(BMT) Recruit Dormitory using economical 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. Local materials and construction techniques shall be used where cost effective. Project includes administrative support, open-bay dormitories, central latrines, drill pad and running track, weapons cleaning pavilion, physical training areas, storage, semiimproved construction access road, west campus fencing, burial of aerial circuits, power and associated ductbank form switching station to the dormitory, added power capacity to the existing switching station, retention and detention ponds, and communications infrastructure and switch and equipment relocation to include a new ductbank, and relocate a baseball field and running trail. Demolishes facilities totaling 20,320 SM. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD anti-terrorism/force protection requirements per UFC 4-010-01.

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1. COMPONENT		FY 2016 MIL:	TARY CONSTRU	ICTION PROJECT DA	TA	2. DATE		
AIR FORCE			(computer ger	nerated)				
3. INSTALLATION	, SITH	E AND LOCATION		4. PROJECT TITL	Ξ			
JOINT BASE SAN LACKLAND AIR FO	ANTON: RCE BA	IO – LACKLAND ASE SITE # 1		BMT RECRUIT DORM	MITORY 5			
TEXAS								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CC	ST (\$000)		
85976		721-311	2461/M	PLS083737R5	71	,000		
Air Conditioni	ng:	450 Tons						
11. Requiremen	t: 20	8520 SM Adequa	ate: 104260	SM Substand	lard: 104260 \$	SM		
PROJECT: Cons	truct	Recruit Dormito	ry (Current	Mission)				
REQUIREMENT:	REQUIREMENT: A major Air Force objective is to provide recruits with facilities							
conducive to t	heir	proper housing, o	dining, and	training. Pro	perly sized,	sited,		
designed, and furnished facilities are essential to successfully train future Air								
Force enlisted	Force enlisted personnel. To support current accession rates, a total of up to 8							
Recruit Housin	g & I	raining (RH&T) fa	acilities a	re required to	accomplish th	ne Basic		
Military Train	ing (BMT) mission at a	JBSA-Lackla	nd. This proje	ect provides t	he fifth		
Airmen Trainin	g Com	plex (ATC) dormi	tory building	ng in the RH&T	Replacement p	program.		
This ATC facil	ity w	ill house a Basio	c Military '	Training Squadr	on including	dormitory		
and administra	tive	space. This pro	ject is des	igned to accomm	nodate 1248 re	ecruits;		
48 recruits pe	r fli	ght, 24 flights]	per squadro	n with 4 reserv	ve bed spaces	per		
flight in orde	r to	address surges,	gender sepa:	ration and inju	ired recruits.	. This		
project will a	iso c	onstruct a new di	rill pad, r	unning track, e	exercise areas	s, war		
skills trainin	skills training areas, and a pavilion for training weapons cleaning, storage, and							
nond West Cam		onstruction agge	a road and	fenging power	and accoriat	-ed		
ductbank to th	e dor	mitory, burial o	Faerial ci	relicing, power	ite. added po	wer		
capacity to th	e exi	sting switching	station, and	d communication	s switch and	equipment		
relocation from	m the	current facility	v, B9085, t	o include a new	duct bank.	0 40-F		
Construction o	f the	fifth BMT dormi	tory building	ng starts the w	ork on the se	cond BMT		
Campus of the	RH&T	Replacement Plan	. Companio	n FY16 project	is Classrooms	s/Dining		
Facility 3, MP	LS083	- 73753.	-			-		
CURRENT SITUAT	TON:	RH&T facilities	the BMT p	rogram, and JBS	A-Lackland fo	orm an		
initial and la	sting	impression of t	he Air Forc	e to all new re	cruits. Exis	sting		
220,000 SF RH&	T fac	ilities, origina	lly constru	cted in the 196	50's and 1970'	s, were		
designed to pr	ovide	housing, dining	, classroom	s, and other tr	aining space	in one		
facility in or	der t	o develop teamwo:	rk, discipl	ine, and espiri	t de corps an	ong the		
recruits. The	se fa	cilities are out	dated and a	re inadequate t	o support cui	rrent and		
planned access	ions	of Air Force Act	ive Duty, R	eserve, and Air	National Gua	ard		
personnel cons	ideri	ng future force a	structure a	nd strength. I	Due to deterio	oration,		
age, and excee	ding	their useful life	e, the RH&T	s require signi	ficant O&M ca	apital to		
keep them oper	ation	al an estimat	ed annual a	verage of \$2.1M	1 per RH&T (\$1	L6.8M for		
today's 8 RH&T	s) fo	or the next 28 year	ars accordi	ng to the facil	ity assessmen	nt study		
and detailed E	conon	ic Analysis. Ava	ailable tra	ining hours, tr	aining qualit	Y,		
cohesiveness,	and E	sprit de corps a	re degraded	as a direct re	esult of decer	ntralized		
BMT facilities	and	functions. A cen	ntralized,	master planned,	BMT campus o	loes not		
exist. BMT ha	s dif	ficulty accommod	ating summe	r recruit surge	es while accor	nplishing		
maintenance, r	epair	and renovation	projects of	the aging, ina	acquate, and			
substandard RH	ubstandard RH&Ts. Recruits do not have the minimum standard square footage during							
designed for F	Surge and overnaul periods forcing as many as 65 recruits per flight in facilities							
and accelerate	and aggelerates deterioration. The fire protection system is indequate and							
obsolete The	mech	anical electric	al, and light	hting system is	and interior 4	inishes		
are at the end	of +	heir useful live	s and requir	re replacement	THEFTOT I			
						ana Na		
FORM 1391, 1	DEC 9	9 Previo	ous editions	are opsolete.	P	age NO.		

1. COMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE JOINT BASE SAN ANTONIO - LACKLAND BMT RECRUIT DORMITORY 5 LACKLAND AIR FORCE BASE SITE # 1 TEXAS 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) 85976 721-311 2461/MPLS083737R5 71,000 IMPACT IF NOT PROVIDED: One of JBSA-Lackland's primary missions is to educate and train every Basic Military Training (BMT) enlisted recruit when entering military service in the U.S. Air Force. Without quality BMT programs and state-of-the-art,

service in the U.S. Air Force. Without quality BMT programs and state-of-the-art, master-planned facilities, the Air Force will have difficulty recruiting, training, and retaining new recruits. BMT schedules will continue to be stretched to critical levels that risk mission loss. Facilities will continue to age and will require increasingly more capital to keep them operational. During surge periods, or when existing RH&Ts are being repaired, maintained, or overhauled, flight sizes will increase and recruits will continue to live in space with less than the minimum standard square footage per recruit. Significant capital must be spent to convert the existing RH&T facilities to current antiterrorism/force protection (AT/FP) criteria.

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. An economic analysis has been completed and determines that new construction is the best option to meet the program requirements. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development and construction of the project and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (210) 671-2977. BMT Recruit Dormitory: 21,121 SM = 225,995 SF, MTI Admin: 1,261 SM = 13,573 SF, Training/Formation: 3,283 SM = 35,337 SF, Weapons Cleaning: 400 SM = 4280 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	1. COMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
2 736777777				<u> </u>		,			
3. INSTALLATI	ON AND L	OCATION			4. PI	ROJECT 1	TITLE		
JOINT BASE SA LACKLAND AIR TEXAS	N ANTONI FORCE BA	O - LACKLAND ASE SITE # 1			BMT I	RECRUIT	DORMITORY 5		
5. PROGRAM EL	EMENT	6. CATEGORY C	CODE	7. PRO	JECT 1	UMBER	8. PROJECT CC	ST (\$000)	
85976		721-311		2461/M	PLS08	3737R5	71,	000	
12. SUPPLEMEN	TAL DATA	A:							
a. Estimate	d Design	n Data:							
(1) Statu	ls:	_							
(a) Da	te Desig	n Started			_		21	-MAY-14	
(b) Pa	rametric	Cost Estimate	s use	ed to de	evelop	costs		YES	
* (c) Pe	ercent Co	omplete as of 0	1 JAN	1 2015				15%	
* (d) Da	te 35% I	Designed					31	-MAR-15	
(e) Da	te Desig	n Complete	-				30	-SEP-15	
(f) Er	ergy Stu	udy/Life-Cycle	analy	vsis was	5/will	. be per	formed	YES	
(2) Basis									
(2) <u>Dabib</u> (2) St	andard (or Definitive D	agiar	· -				NO	
(b) Wh	ere Desi	ign Was Most Re	centl	y Used	-			10	
(3) Total	Cost ((a) = (a) + (b)	or (d	l) + (e)				(\$000)	
(a) Pr	oduction	n of Plans and	Speci	ficatio	ons			1,000	
(b) Al	1 Other	Design Costs						500	
(c) To	tal	j						1,500	
(d) Co	ntract							1,250	
(e) In	-house							250	
(4) Const	ruction	Contract Award						16 FEB	
(5) Const	ruction	Start						16 MAR	
(6) Const	ruction	Completion						18 MAR	
* Indicat which i cost an	es compl s compan d execut	letion of Proje rable to tradit rability.	ct De ional	efinitic . 35% de	on wit esign	h Param to ensu	etric Cost Es re valid scop	timate e,	
b. Equipmer	it associ	iated with this	pro	ject pro	ovided	l from c	ther appropri	ations:	
EQUIPMEN	I NOMENC	LATURE	P APF	ROCURIN PROPRIAT	g TION	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED	COST (\$000)	
WALL LOC	KERS AND	FURNISHINGS		3400		2	017	2,560	
ADPE				3400		2	017	190	

1. COMPONENT FY 2016 MILITARY CONSTRUCTION PROGRAM 2. DATE AIR FORCE 2. DATE										
3. INSTALLATION A	AND LOC	ATION		4. COMM	/AND:			5. AREA	CONST	
HILL AIR FORCE BA	ASE			AIR FOR	CE MATE	RIEL		COST IN	DEX	
UTAH				COMMAN	ND			1.01		
6. Personnel	PEF	RMANEN	Γ	STU	DENTS		SUF	PORTED)	
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	372	1,216	10,250				267	2773	621	15,499
END FY 2019	361	1,211	9,940				255	2774	615	15,156
7. INVENTORY DA	TA (\$000)									
a. I otal Acreage:	6,946	• • • •								4 000 050
b. Inventory I otal as	s of : (30 s	Sep 14)								4,322,858
c. Authorization Not	Yet in inv	entory:		040)						51,083
d. Authorization Requested in this Program: (FY2016) 38,40								38,400		
e. Planned in Next Four Year Program: f Remaining Deficiency: 361.50									361 500	
g. Grand Total:										
g. Grand Total: 4,773,84									4,770,041	
8 PROJECTS REO	UESTED	IN THIS F	ROGRA	٨·		(FY2016)				
CATEGORY	OLOILD			vi.		(112010)		COST	DESIGN	STATUS
CODE	PROJEC	Τ ΤΙΤΙ Ε				SCOPE		\$ 000	START	CMPI
171-212	F-35A Flig	ight Simulator Addition Phase 2 1 020 SM 5 900 Design/Build							uild	
211-177	F-35A Ha	ngar 40/4	2 Addition	n and AML	/	5.741	SM	21.000	Design/Bi	uild
422-264	Hayman I	gloos			-	9	EA	11,500	Design/Bi	uild
-		0				TOTAL		38,400		-
9a. Future Projects:	Typical F	Planned In	Next Fou	ır Years:						
-									_	
	NONE					TOTAL		0	-	
9b. Real Property M	laintenanc	e Backlog	This Inst	allation: (S	\$M)					505.0
10. Mission or Major	r Function	s: Hill Air	Force Ba	se is hom	e to many	operatior	nal and su	pport mis	sions with	Ogden Air
Logistics Center (OC	D-ALC) sei	rving as h	ost organi	ization. T	he center	provides v	worldwide	engineer	ing and log	gistics
management for the	F-16 Figh	ting Falco	n, A-10 T	hunderbo	It II and M	inuteman	III interco	ntinental l	ballistic mi	ssile. The
base performs depot	t maintena	ince for F-	·16, C-130), and F-2	2 aircraft.					
Outstanding poll	lution and	Safety (O	SHA) Def	ficiencies:						
a. Air pollution 0										
b. Water Pollution 0										
c. Occupational	Safety and	d Health						0		
d. Other Environmental 0										

1. COMPONENT		FY 2016 MILIT.	ARY CONSTRU	CTION	PROJECT DAT	ГА	2. DATE	
AIR FORCE		(c	omputer gen	erate	d)			
3. INSTALLATION	, SITE	AND LOCATION		4. PI	ROJECT TITLE	1	·	
HILL AIR FORCE	BASE			F-35A	A FLIGHT SIM	ULATOR ADDIT	ION, PHASE 2	
UTAH	· -							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT COST (\$000)		
27142		171-212	2349/	KRSM1	.53001		5,900	
		9. C	OST ESTIMA	TES		1		
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)	
	TRO						4 389	
FRIMARI FACILII					1 000	4 010	4,303	
SIMULATOR FACE	LITY A	DDITION		SM	1,020	4,219	(4,303)	
SUSTAINABILITY	AND E	NERGY MEASURES					(86)	
SUPPORTING FACE	LITIES						761	
UTILITIES				LS			(148)	
SITE IMPROVEME	NTS			LS			(63)	
PAVEMENTS	מסממזוס	m					(230)	
RELOCATE UTILI	TIES	1		LS			(120)	
SUBTOTAL							5,150	
CONTINGENCY	(5.0%))					258	
TOTAL CONTRACT	COST						5,408	
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				308	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)				206	
TOTAL REQUEST							5,922	
TOTAL REQUEST (1	ROUNDE	D)					5,900	
EQUIPMENT FROM	OTHER	APPROPRIATIONS (NON-	ADD)				71	
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ct additic	on to Bldg 1	18 for two	
F-35A flight s	simula	tors. Project inc	cludes rei:	nford	ed concret	e foundatio	on and floor	
slab, structur	al st	eel frame, fire de	etection/s	uppre	ssion, spe	cial securi	lty	
support, reloc	utili	ties, pavements, s	be way of	cons	truction.	aping, com and all oth	nunication	
necessary work	as r	equired. Faciliti	ies will b	e des	signed as p	ermanent co	onstruction	
in accordance	with	DoD Unified Facili	ities Crit	eria	(UFC) 1-20	0-01, Gener	al Building	
Requirements a	and UF	C 1-200-02, High H	Performanc	e and	l Sustainab	le Building	1	
Requirements.	This	project will comp	ply with D	oD an	titerroris	m/force pro	otection	
requirements p	per UF							
Air Conditioni	.ng:	26 TONS	1256 CM	<i>с</i> .,	hatondond	0 GM		
TI. Requirement	16: 23	Adequate:	. 1350 SM		DStandard:			
PROJECT: Cons	Struct	: F-35A Flight Simu	llator Add	ition c:	, Phase 2.	(New Miss	310n)	
REQUIREMENT:	<u>EQUIREMENT:</u> Provide adequately sized and configured F-35A flight simulation							
118. This is	118. This is the second phase of a two-phase effort to provide the 388 FW with a							
total of six H	total of six F-35A simulator training rooms. The first two simulators will replace							
the F-16 simul	he F-16 simulators in Bldg 118. A FY13 MILCON project provides the next two							
simulator bays	; the	y must be ready fo	or training	g in	Nov 2016.	This proje	ect provides	
the final two	the final two simulator bays that must be ready for training in Jun 2018. Delivery							
of aircraft be	gins	in Fils/4Q. Proje	ect must 1	nciud	le a raised	computer i	100r 1n	
					• • ·			

DD FORM 1391, DEC 99 Previous editions are obsolete.

Page No.

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	UCTION PROJECT DAT	ГА	2. DATE
AIR FORCE		(6	omputer ger			
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE	1	
HILL AIR FORCE	BASE			F-35A FLIGHT SIM	ULATOR ADDITIC	N, PHASE 2
HILL AFB SITE #	1					
UTAH						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)
27142		171-212	2349	/KRSM153001	5	,900
each simulator	room	and all mechanica	al and ele	ctrical service	s and disc s	torage
requirements.	Simu	lator training fac	cility mus	t comply with s	ecurity requ	irements
unique to the	F-35A	. Provide an HVAG	C system t	hat is able to	maintain a c	onstant

<u>CURRENT SITUATION:</u> There is inadequate space available on Hill AFB to accommodate six flight simulators required for the F-35 beddown. This unique function requires specialized space and security. Building 118 currently houses two flight simulator bays for assigned F-16 aircraft. When the F-16 aircraft depart, these two bays will be used for F-35 simulators. A FY13 MILCON project, KRSM113028, provides an addition to the facility for another two bays. This project constructs an addition for the final two simulator bays and offices to support the remaining operational squadrons upon aircraft arrived.

temperature environment for sensitive computer equipment. Provide intrusion detection and fire detection/suppression systems as per F-35A simulator training

<u>IMPACT IF NOT PROVIDED</u>: The 388 FW will not be able to provide full F-35A simulation training capabilities to assigned aircrews. In the interim, aircrews would have to travel to other sites to perform simulation training. Without aircrew certification, pilots would not be capable of performing the assigned wing operational mission.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements" and the F-35A Facility Requirements Plan. The 2 Flight Simulators that this project will house were ordered in Aug 2014 using expiring FY 12 3010 funds. A preliminary analysis of reasonable alternatives to accomplish this project (status quo, renovation, new construction) was done. It indicates there is only the add/alter option meets operational requirements. Therefore, a certificate of exception has been prepared. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (801) 777-7505; (Flight Simulator Addition: 1,020 SM = 10,975 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.

Page No.

requirements.

1. COMPONENT AIR FORCE		FY 2016 MILITARY (compu	CONSTR	UCTION	PROJECT	DATA	2. DATE
2 TNGTALLATT		OCATION	J	4 DD		97 F	
HILL AIR FORC HILL AFB SITE	E BASE # 1	INCATION .		4. PR F-35A 2	. FLIGHT	SIMULATOR ADD:	ITION, PHASE
5. PROGRAM EL	EMENT	6. CATEGORY CODI	2 7. P	ROJECT	NUMBER	8. PROJECT CC	DST (\$000)
27142		171-212	234	9/KRSM	153001	5,	900
12. SUPPLEMEN	TAL DAT	A:					
a. Estimate	d Design	n Data:					
(1) Proje	ct to be	accomplished by o	design-	build	procedur	es	
(2) Basis (a) St (b) Wh	: andard o here Des	or Definitive Desi ign Was Most Recer	.gn - itly Use	ed -			NO
(3) All O	ther Des	ign Costs					236
(4) Const	ruction	Contract Award					16 FEB
(5) Const	ruction	Start					16 MAR
(6) Const	ruction	Completion					17 SEP
(7) Energ	y Study/	Life-Cycle analys	is was/	will b	e perfor	med	YES
b. Equipmer	nt assoc: F NOMENC:	iated with this pr PR LATURE	oject p OCURING	Provide	FISC FISC OR RE	other appropri AL YEAR DPRIATED EQUESTED	COST (\$000)
COMMUNIC	ATIONS E	QUIPMENT	340	0		17	53
FURNISHI	NGS AND	EQUIPMENT	340	0		17	18

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION	PROJECT DA	ГА	2. DATE
AIR FORCE		(c	omputer gen	erate	d)		
3. INSTALLATION	, SITE	AND LOCATION		4. PF	OJECT TITLE		I
HILL AIR FORCE HILL AFB SITE # UTAH	BASE 1			F-35A	A HANGAR 40/	42 ADAL AND	AMU
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)
27142		211-177	2349/	KRSM1	03013		21,000
		9. 0	OST ESTIMA	TES		1	
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILIT	IES						14,151
HANGARS 40/42	ADDITI	ON (211-177)		SM	990	3,755	(3,717)
HANGARS 40/42	ALTERA	TIONS (211-177)		SM	2,892	1,994	(5,767)
AIRCRAFT MAINT	ENANCE	UNIT (211-154)		SM	1,859	2,367	(4,401)
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(266)
SUPPORTING FACIN	LITIES						3,998
UTILITIES				LS			(453)
PAVEMENTS				LS			(1,172)
SITE IMPROVEME	NTS			LS			(304)
COMMUNICATIONS	SUPPO	RT		LS			(585)
DEMOLITION				SM	1,700	333	(566)
ASBESTOS/LEAD	PAINT	ABATEMENT		LS			(248)
FIRE PROTECTIO	N STOR	AGE TANKS/PUMPS		LS	İ		(670)
SUBTOTAL							18,149
CONTINGENCY	(5.0%))					907
TOTAL CONTRACT	COST						19,057
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(5.7%)				1,086
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				726
TOTAL REQUEST							20,869
TOTAL REQUEST ()	ROUNDE	D)					21,000
EQUIPMENT FROM (OTHER	APPROPRIATIONS (NON-	ADD)				3,074
EQUIPMENT FROM (10. Descripti	other . .on of	APPROPRIATIONS (NON-	ADD)	ngar	additions	include re:	3,074 inforced
concrete found	lation	s, floor slabs, st	tructural	steel	frame, ba	ick-up power	r for new
hangar doors,	and r	ire detection/supp	pression s	ystem naint	abatement	age tanks/]	pumps.
for seismic/wi	nd/sn	loads, HVAC up	rades. ro	of mo	dification	s. fire	ai upgrade
detection/supp	ressi	on system upgrades	s, a 5-ton	brid	ge crane f	or each ha	ngar, fall
protection, bi	rd ne	tting, one power p	panel for	each	of the thr	ee aircraft	t that will
occupy each ha	ngar,	and new lightning	g protecti	on sy	stems thro	oughout. A:	ircraft
Maintenance Un	it is	reinforced concre	ete floor,	stee	l structur	al frame, s	standing
seam metal roc	of, ut	ilities, fire dete	ection/sup	press	ion, pavem	ents, site	4
includes perim	commu	nication support,	and up to	tner hanga	work neces	king Fac	ject ilities will
be designed as	perm	anent construction	n in accor	dance	with the	DoD Unified	d Facilities
Criteria (UFC)	1-20	0-01, General Buil	lding Requ	ireme	nts and UF	C 1-200-02	, High
Performance an	nd Sus	tainable Building	Requireme	nts.	This proj	ect will co	omply with
DoD antiterror	ism/f	orce protection re	equirement	s per	UFC 4-010	-01.	
Air Conditioni	ng:	150 Tons					

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Previous editions are obsolete.

1. COMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE HILL AIR FORCE BASE F-35A HANGAR 40/42 ADAL AND AMU HILL AFB SITE # 1 UTAH 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER PROJECT COST (\$000) 27142 211-177 2349/KRSM103013 21,000 11. Requirement: 5741 SM Adequate: 0 SM Substandard: 2892 SM PROJECT: Construct F-35A Hangar 40/42 ADAL and AMU. (New Mission) <u>REQUIREMENT:</u> Provide adequately sized and configured fighter aircraft repair hangars and AMU for squadron of twenty-four F-35A fighter aircraft. Hangar 40/42 additions extend the facility approximately thirty feet to the north to accommodate installation of new hangar doors to meet unique maintenance requirements of the F-35A weapon system. Alterations to the existing hangar includes upgrading the existing utility systems, roof modifications, adding 3 bridge cranes, and adding power panels. The AMU is required to house administrative and maintenance support activities to include space for the Autonomic Logistics Information System (ALIS) maintenance brief/debrief areas. Project must ensure necessary security upgrades are in place before aircraft arrival; security accreditation and installation of computer systems requires approximately 6 months after construction. The third operational squadron is scheduled to begin arriving in FY18/4. CURRENT SITUATION: Existing maintenance hangars do not provide adequate space for the unique maintenance requirements of the F-35A aircraft. Hangars 40 and 42 lack the space necessary for maintenance personnel to conduct engine removal/replacement functions, as well as, additional maintenance tasks specified in the Weapon System Facility Requirements Plan. The existing administrative portion of hangars 40 and 42 are not suitable in terms of condition, nor functionally compatible for AMU administrative and maintenance support tasks. IMPACT IF NOT PROVIDED: The 388th FW will not be able to receive delivery of the F-35A in any significant numbers. Without the hangar additions, effective engine maintenance for the F-35A cannot be performed, proper security measures cannot be maintained, and support equipment will have to be stored outdoors subject to harsh weather conditions. F-35A AMU support functions cannot be performed adequately and efficiently. ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements" and the F-35A Facility Requirements Plan. preliminary analysis of reasonable alternatives for accomplishing this project (status quo, new construction, renovation) was done. It indicates that adding to and altering bldgs 40 and 42, and constructing a new AMU, is the only option that will meet operational requirements. Therefore, a waiver to exception has been prepared. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (801) 777-7505; (Hangar Additions: 990 SM = 10,652 SF; Hangar Alterations: 2,893 SM = 31,117 SF; AMU: 1,859 SM = 20,002 SF) JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.

COMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE INSTALLATION AND LOCATION (computer generated) 4. FROJECT TITLE INSTALLATION AND LOCATION F-35A HANGAR 40/42 ADAL AND ANU LL AFP SITE # 1 F-35A HANGAR 40/42 ADAL AND ANU 27142 211-177 7. FRAJECT NUMBER 8. FROJECT COST (\$000) 27142 211-177 7. FRAJECT NUMBER 8. FROJECT COST (\$000) 2. SUPPLEMENTAL DATA: a. Estimated Design Data: NO 10 (1) Project to be accomplished by design-build procedures NO 10 Pasis: (a) Standard or Definitive Design - NO NO 16 FEB (b) Construction Start 16 MAR 16 FEB 16 MAR (c) Construction Completion 18 MAR 17 MAR (f) Equipment associated with this project provided from other appropriations: EQUIPMENT NOMENCLATURE FROCURING APPRC FISCAL YEAR COST EQUIPMENT NOMENCLATURE S400 17 458 GOMUNICATION EQUIPMENT 3080 17 350 FURNISHINGS 3400 17 458 3080 17 350 5-TON ERIDGE CRAME 3080 <th> </th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
INSTALLATION AND LOCATION 4. PROJECT TITLE LLL ATR FORCE BASE F. STA HANGAR 40/42 ADAL AND AMU LLA ATB SITE # 1 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 27142 211-177 2349/KRSM103013 21,000 2. SUPPLEMENTAL DATA: 3. SECOND 12,000 21,000 2. SUPPLEMENTAL DATA: 3. Standard or Definitive Design - NO (b) Where Design Costs 840 (d) Construction Contract Award 16 FEB (f) Construction Completion 18 MAR (f) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: PROCURING APPRC PURNISHINGS 3400 17 458 COMMUNICATION EQUIPMENT 3080 17 350 F-TON ENDER CANE 3080 17 500 POWER PANELS 3080 17 500	1. COMPONENT AIR FORCE	:	FY 2016 MILIT	ARY CONSTR	JCTION nerated	PROJECT	DATA	2.	DATE
LL ATR FORCE BASE LL ATR FORCE BASE LL ATR FORCE BASE LL ATR STRE # 1 FAH PROGRAM ELEMENT 6. CATEGORY CODE 7. FROJECT NUMBER 8. FROJECT COST (\$000) 27142 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 (4) Construction Contract Award (5) Construction Completion (6) Construction Completion (7) Energy Study/Life-Cycle analysis was/will be performed (7) Energy Study/Life-Cycle analysis was/will be performed EQUIPMENT NOMENCLATURE FROCURING AFFEC SECURING AFFEC SECURING STAT (5) COMMUNICATION EQUIPMENT 3080 17 5TON BRIDGE CRAME 3080 17 16 3080 17 500 17 500	3. TNSTALLATI	ON AND LC	CATTON		4 PPC	እፕምርጥ ጥፕ	ጥ፲.ም		
ILL ARE FURCE BASE ILL ARE SITE # 1 TAH PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 27142 211-177 2349/KRSM103013 21,000 2. SUPPLEMENTAL DATA: a. Betimated Design Data: (1) Project to be accomplished by design-build procedures (2) Basis: (a) Standard or Definitive Design - NO (b) Where Design Costs (a) Standard or Definitive Design - NO (b) Where Design Costs (a) Standard or Definitive Design - NO (b) Where Design Costs (a) Standard or Definitive Design - NO (b) Where Design Costs (b) Construction Contract Award (c) Construction Completion (c) Complet							40/42 3031 3		-
AR PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 27142 211-177 2349/KRSM103013 21,000 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 840 (4) Construction Contract Award 16 FEB (5) Construction Completion 18 MAR (6) Construction Completion 18 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: PROCURING APPRC PROCURING APPRC OST (\$000) FURNISHINGS 3400 17 458 COMMUNICATION EQUIPMENT 3080 17 686 SECURITY SYSTEMS 3080 17 1,080 POWER PANELS 3080 17 500	HILL AIR FORCI	E BASE # 1			F-35A	HANGAR	40/42 ADAL A	AND AMU	J
PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 27142 211-177 2349/KRSM103013 21,000 2. SUPPLEMENTAL DATA: . . . a. Estimated Design Data: (1) Project to be accomplished by design-build procedures . . . (2) Basis: (3) All Other Design Costs (5) Construction Contract Award (6) Construction Completion . <	JTAH	π ⊥							
27142 211-177 2349/KRSM103013 21,000 2. SUPPLEMENTAL DATA:	5. PROGRAM EL	EMENT	6. CATEGORY	CODE 7. PI	ROJECT	NUMBER	8. PROJECT	COST (\$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 840 (4) Construction Contract Award 16 FEB (5) Construction Start 16 MAR (6) Construction Completion 18 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: EQUIPMENT NOMENCLATURE PROCURING APPRC APPROPRIATED (\$000) FURNISHINGS 3400 17 458 COMMUNICATION EQUIPMENT 3080 17 686 SECURITY SYSTEMS 3080 17 1,080 FOWER PANELS 3080 17 500	27142		211-177	234	9/KRSM1	L03013	2	21,000	
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 840 (4) Construction Contract Award 16 FEB (5) Construction Start 16 MAR (6) Construction Completion 18 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: EQUIPMENT NOMENCLATURE PROCURING APPRC APPCORIATED (\$000) FURNISHINGS 3400 17 458 COMMUNICATION EQUIPMENT 3080 17 350 5-TON ERIDGE CRANE 3080 17 1,080 FOWER PANELS 3080 17 500	12. SUPPLEMEN	TAL DATA	:						
<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 840 (4) Construction Contract Award 16 FEB (5) Construction Start 16 MAR (6) Construction Completion 18 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations:</pre>	a. Estimate	d Design	Data:						
<pre>(2) Basis: (a) Standard or Definitive Design - (b) Where Design Was Most Recently Used - (c) Where Design Costs 840 (f) Construction Contract Award 16 FEB (c) Construction Start 16 MAR (c) Construction Completion 18 MAR (c) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: EQUIPMENT NOMENCLATURE PROCURING APPRC OR REQUESTED (\$000) FURNISHINGS 3400 17 458 COMMUNICATION EQUIPMENT 3080 17 686 SECURITY SYSTEMS 3080 17 350 5-TON BRIDGE CRANE 3080 17 1,080 POWER PANELS 3080 17 500</pre>	(1) Projec	ct to be	accomplished	by design-	build r	procedur	es		
(a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used - NO (c) All Other Design Costs 840 (d) Construction Contract Award 16 FEB (5) Construction Start 16 MAR (6) Construction Completion 18 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: FISCAL YEAR EQUIPMENT NOMENCLATURE PROCURING APPRC OR REQUESTED (\$000) FURNISHINGS 3400 17 458 COMMUNICATION EQUIPMENT 3080 17 350 SECURITY SYSTEMS 3080 17 1,080 POWER PANELS 3080 17 500	(2) Basis:	:							
(3) All Other Design Costs 840 (4) Construction Contract Award 16 FEB (5) Construction Start 16 MAR (6) Construction Completion 18 MAR (7) Energy Study/Life-Cycle analysis was/will be performed VES b. Equipment associated with this project provided from other appropriations: VES FUCTURING APPRC FISCAL YEAR APPROPRIATED OR REQUESTED COST FURNISHINGS 3400 17 458 SECURITY SYSTEMS 3080 17 686 SECURITY SYSTEMS 3080 17 350 5-TON BRIDGE CRANE 3080 17 1,080 POWER PANELS 3080 17 500	(a) St (b) Wh	andard on ere Desig	r Definitive I gn Was Most Re	Design - ecently Use	∍d -				NO
(4) Construction Contract Award 16 FEB (5) Construction Start 18 MAR (6) Construction Completion 18 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: YES requipment nomenclature PROCURING APPRC FISCAL YEAR APPROPRIATED OR REQUESTED COST (\$000) FURNISHINGS 3400 17 458 COMMUNICATION EQUIPMENT 3080 17 686 SECURITY SYSTEMS 3080 17 350 FOWER PANELS 3080 17 500	(3) All Ot	ther Desi	gn Costs					8	40
(5) Construction Start 16 MAR (6) Construction Completion 18 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: PROCURING APPER: APPROPRIATED COST OR REQUESTED (\$000) FURNISHINGS 3400 17 458 COMMUNICATION EQUIPMENT 3080 17 686 SECURITY SYSTEMS 3080 17 350 5-TON BRIDGE CRANE 3080 17 500 POWER PANELS 3080 17 500	(4) Constr	ruction C	ontract Award					16 F	'EB
(6) Construction Completion 18 MAR (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 (\$000) FURNISHINGS 3400 17 458 COMMUNICATION EQUIPMENT 3080 17 686 SECURITY SYSTEMS 3080 17 350 5-TON BRIDGE CRANE 3080 17 1,080 POWER PANELS 3080 17 500	(5) Constr	ruction S	tart					16 M	IAR
(7) Energy Study/Life-Cycle analysis was/will be performedYESb. Equipment associated with this project provided from other appropriations:PROCURING APPRCEQUIPMENT NOMENCLATUREFISCAL YEAR APPROPRIATED OR REQUESTEDFURNISHINGS340017GOMMUNICATION EQUIPMENT308017SECURITY SYSTEMS3080175-TON BRIDGE CRANE308017FOWER PANELS308017	(6) Constr	ruction C	ompletion					18 M	IAR
b. Equipment associated with this project provided from other appropriations: PROCURING APPROF FISCAL YEAR APPROPRIATED COST OR REQUESTED (\$000) FURNISHINGS 3400 17 458 COMMUNICATION EQUIPMENT 3080 17 686 SECURITY SYSTEMS 3080 17 350 5-TON BRIDGE CRANE 3080 17 1,080 POWER PANELS 3080 17 500	(7) Energy	y Study/L	ife-Cycle ana	lysis was/	will be	e perfor	med	Y	ES
FURNISHINGS340017458COMMUNICATION EQUIPMENT308017686SECURITY SYSTEMS3080173505-TON BRIDGE CRANE3080171,080POWER PANELS308017500	EQUIPMENT	NOMENCL	ATURE	PROCURING	APPRC	APPRO OR RE	PRIATED EQUESTED	(COST (\$000)
COMMUNICATION EQUIPMENT308017686SECURITY SYSTEMS3080171,0805-TON BRIDGE CRANE308017500POWER PANELS308017500	FURNISHIN	IGS		340	0		17		458
SECURITY SYSTEMS 3080 17 350 5-TON BRIDGE CRANE 3080 17 1,080 POWER PANELS 3080 17 500	COMMUNICA	TION EQU	IPMENT	308	0		17		686
5-TON BRIDGE CRANE 3080 17 1,080 POWER PANELS 3080 17 500	SECURITY	SYSTEMS		308	0		17		350
POWER PANELS 3080 17 500	5-TON BRI	DGE CRAN	Ε	308	0		17	:	1,080
	POWER PAN	IELS		308	0		17		500

1. COMPONENT		FY 2016 MILIT.	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE
AIR FORCE		(c	omputer gen	erate	d)		
3. INSTALLATION	, SITE	AND LOCATION		4. PR	ROJECT TITL	Ξ	
HILL AIR FORCE	BASE			НАҮМА	N IGLOOS		
HILL AFB SITE # UTAH	1						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJEC	CT NUMBER	8. PROJECT	COST (\$000)
27248		422-264	2349/	KRSM1	.33002		11,500
		9. C	OST ESTIMA	TES	1		
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILIT	IES						5,649
HAYMAN IGLOOS				EA	9	615,480	(5,539)
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(110)
SUPPORTING FACIL	LITIES						4,370
UTILITIES				LS			(973)
PAVEMENTS				LS			(1,601)
SITE IMPROVEME	NTS			LS			(1,363)
COMMUNICATION	SUPPOR	Т		LS			(433)
SUBTOTAL							10,019
CONTINGENCY	(5.0%))					501
TOTAL CONTRACT (COST						10,520
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				600
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)				401
TOTAL REQUEST							11,521
TOTAL REQUEST (1	ROUNDE	D)					11,500
10. Descripti	on of	Proposed Construc	tion: Co	nstru	ct nine ea	arth covered	l reinforced
concrete Modul	ar St	orage Magazines (M	(SMs) or "	igloo	s" measur:	ing 26' x 80)' capable
of storing 150	,000	pounds of class 1.	l munition	ns ea	ch. New :	igloos are (o be
permanent cons	truct	ion in accordance	with DOD	UFC 1	-200-01.	Work inclu	led as
road, reinford	ed co	ncrete aprons, cat	enary lig	htnin	g protect:	ion, utilit:	les, site
improvements,	commu	nications support,	, and all o	other	necessary	y support.	This
project will c	omply	with DoD antiterr	corism/for	ce pr	otection 1	requirements	g per
Unified Facili	ties	Criteria 4-010-01.				-	
11. Requiremen	ιτ: 10	EA Adequate:]	LEA Sul	ostan	aard: 0 EA	7	
PROJECT: Cons	truct	9 Hayman type igl	loos. (Cur:	rent	Mission)		
REQUIREMENT:	Nine	properly sized and	d configur	ed mu	nitions st	corage iglo	os measuring
exercises. Fa	are cilit	ies will be used f	for deep st	real	world deg	cal items in	d training
non-palletized	l muni	tions in container	s, test e	quipm	ent, and e	empty conta:	ners.
Requirements i	nclud	e a full length re	einforced (concr	ete apron	spanning th	ne front of
each proposed	new i	gloo, for heavy eq	quipment lo	oadin	g/maneuver	ring and to	connect to
required new a	CCess	roads. Each new	igloo wil	l req	uire a lig	phtning prot	ection
lighting. exte	rnal	phone line/Vindica	ator for a	pment larm	annunciat	icernar and a b	nigh
security door	locki	ng mechanism. Igl	loos are to	o be	constructe	ed in a loca	ation that
ensures proper	drai	nage with no steep	p roadway/a	apron	grades.		
CURRENT SITUAT	ION:	There are insuffi	icient iglo	oos a	t Hill AF	B to support	current
L							

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Page No.

1. COMPONENT		FY 2016 MILIT	TARY CONSTRU	JCTION PROJECT DAT	ГА	2. DATE
AIR FORCE		(0	computer gen	nerated)		
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE	:	
HILL AIR FORCE	BASE			HAYMAN IGLOOS		
HILL AFB SITE #	1					
UTAH						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)
27248		422-264	2349	/KRSM133002	11	L,500
and future mis	sions physi	All existing i	gloos capa the new l	ble of storing	Class 1.1 mu zed precisio	nitions n guided

and which can physically accommodate the new large containerized precision guided munitions are being used to maximum capacity to support other missions. IMPACT IF NOT PROVIDED: Failure to provide adequate munitions storage facilities

<u>IMPACT IF NOT PROVIDED</u>: Failure to provide adequate munitions storage facilities will result in costly production and fielding delays. Additionally, specialized assets would not be immediately available to the warfighter if these facilities are not provided.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084 "Facility Requirements." An economic analysis of reasonable options to this project was conducted and it was determined that the only option to meet operational requirements is to construct 9 igloos in the MAMS 1 area. This project shall comply with 6055.09-M, Volume 2, "DoD Ammunition and Explosive Safety Standards Explosive safety Construction Criteria. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of this project in accordance DOD UFC 1-200-02. Base Civil Engineer: (801) 777-7505.

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

						1	
1. COMPONENT		FY 2016 MILITARY C	ONSTR	UCTION PROJECT	DATA	2	. DATE
AIR FORCE		(compute	er ge	nerated)			
3. INSTALLATIO	ON AND L	LOCATION		4. PROJECT TI	TLE		
HILL AIR FORC	E BASE # 1			HAYMAN IGLOOS	5		
UTAH	" -						
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CO	OST	(\$000)
27248		422-264	234	9/KRSM133002	11	,50	0
			_				-
12. SUPPLEMEN	TAL DAT	A:					
a. Estimate	d Design	n Data:					
(1) Projec	t to be	accomplished by de	sign-	build procedur	es		
(2) Basis (a) St	: andard (or Definitive Design	n –				NO
(b) Wh	ere Des	ign Was Most Recent	ly Use	ed -			
(3) All O	her Des	sign Costs					460
(4) Consti	ruction	Contract Award				16	FEB
(5) Constr	ruction	Start				16	APR
(6) Constr	ruction	Completion				17	OCT
(7) Energy	/ Study/	Life-Cycle analysis	was/	will be perfor	rmed		YES

1. COMPONENT AIR FORCE		F	Y 2016 M	ILITARY	CONSTR		PROGRA	М	2. DATE	
3. INSTALLATION A FE WARREN AIR FO WYOMING	AND LOCA	ATION SE		4. Comn Air for Comman	/AND: CE GLOB ND	AL STRIK	Æ	5. AREA COST IN 1.00	CONST DEX	
6. Personnel	PEF	RMANEN		STU	DENTS		SUF	PORTED)	
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	371	2157	453	0	0	0	415	2218	725	6,339
	359	2122	454	0	0	0	403	2178	726	6,242
 INVENTORY DA Total Acreage: Inventory Total as Authorization Not 	6,833 6,833 of : (30 \$ Yet in Inv	Sep 14) entory:								352,855 0
d. Authorization Rec	quested in	this Prog	ram: (FY 2	2016)						95,000
e. Planned in Next F	our Years	s Program	:	,						52,750
f. Remaining Deficie	ency:								-	78,369
g. Grand Total:										578,974
							`			
8. PROJECTS REQ CATEGORY <u>CODE</u> 215-582	PROJEC Weapon S	TTITLE Storage Fa	acility	VI:		(FY 2016 <u>SCOPE</u> 8,491 TOTAL) SM	COST <u>\$,000</u> 95,000 95,000	DESIGN <u>START</u> Aug-13	STATUS <u>CMPL</u> Sep-15
9a. Future Projects:	Typical F	Planned in	Next Fou	r Years:						
141-185	Consolida	ated Sa O	os/TRF Fa	acilitv		7.699	SM	24.200		
212-216	Missile Ro	oll Transfe	er Facility	J		802	SM	5,050		
721-312	Dormitory	/	•			5,544	SM	23,500	_	
						TOTAL		52,750		
0h Pool Proporty M	aintonana	o Backlor	This Inst	allation (¢	N/I)					64.1
10 Mission or Major	r Eunction		arron Air	Eorce Bas	ivi) so is tho o	Idest cont	inuquely	activo milit	anvinetalla	04.1
the Air Force. It's hor SW operates 150 Mi 12,600-square-mile a	me to the s nuteman I area in thr	90th Spac Il intercor ee states	e Wing an tinental b (Wyoming)	nd Headquallistic mis	uarters, 20 ssiles on f (a, and Co	Oth Air For ull alert ar plorado).	rce, of Air	Force Sp ins the mi	ace Comn ssile fields	nand. 90 across a
11. Outstanding poll	lution and	Safety (O	SHA) Def	iciencies:						
a. Air pollution								0		
b. Water Pollutic	on							0		
c. Occupational	Safety and	d Health						0		
d. Other Environ	imental							0		

1. COMPONENT		FY 2016 MIL	ITARY CONSTRU	CTION	PROJECT DA	TA	2. DATE
AIR FORCE			(computer gen	erate	d)		
3. INSTALLATION	, SITI	E AND LOCATION		4. PF	ROJECT TITL	E	I
FRANCIS E WARRE	N AIR	FORCE BASE		WEAPC	N STORAGE	FACILITY	
F E WARREN AFB	SITE	# 1					
E DECCEAM ELEM	TRATE						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PI	ROJECI	' NUMBER	8. PROJECT (JOST (\$000)
27576		215-582	1833/0	HLN15	3001	9	5,000
		9.	COST ESTIMA	TES	1		
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACTLIT	ES						68,438
WEAPON STORAG	E AND	MATNTENANCE FACTLT	TY	SM	8,491	7,902	(67,096)
SUSTAINABILITY	AND B	ENERGY MEASURES		LS	0,151	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(1,342)
SUPPORTING FACTO							17 091
				Te			(3 250)
PRIVATIZED UTT	הדיי מ	CONNECTION FEE					(3,250)
PAVEMENTS	\			LS			(1,000)
SITE IMPROVEME	NTS			LS			(6,000)
COMMUNICATIONS	SUPPO	ORT		LS			(3,000)
DEMOLITION				SM	10,454	200	(2,091)
SUBTOTAL							85,529
CONTINGENCY	(5	5.0%)					4,276
TOTAL CONTRACT (COST					-	89,805
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(5.7%)				5,119
TOTAL REQUEST						-	94,924
TOTAL REQUEST (F	ROUNDE	:D)					95,000
EQUIPMENT FROM (THER	APPROPRIATIONS (NO	N-ADD)				(22,300.0)
10. Descripti	on of	Proposed Constr	uction: Pro	ject	will cons	struct a Wear	on Storage
Facility (WSF)	comb	oining storage and	d maintenand	ce fu	nctions ir	nto a single	facility.
Facility will	be de	signed as perman	ent construc	ction	in accord	lance with Do	oD Unified
Facilities Cri	teria force	- UFC 1-200-01.	irements project	CT W1	4_010_01	All consti	ruction
will meet requ	ireme	ents for essentia	l facility a	syste	m nuclear	design cert:	ification.
This is the pr	oto t	ype for future W	SFs.	-		2	
Air Conditioni	ng:	130 Tons					
11. Requiremen	t: 84	91 SM Adequat	e:0SM S	Subst	andard: 10	454 SM	
PROJECT: Cons	truct	: a Weapon Storag	e Facility.				
REQUIREMENT:	A rei	nforced concrete	earth cover	red f	acility th	at puts all	nuclear
maintenance an	d sto	orage operations	in a single	faci	lity to mi	nimize the e	effects of
weather in ope	ratic	ons, eliminate se	curity devia	ation	s, recapit	alize aging	
		Thore are 22 f-	ailitian in	+ -	guout the	mission.	
with a combine	d arc	ss square footag	e of 10.454	SM.	Building	1152, the p	je alea rimarv
storage and ma	inter	ance facility, i	s an existin	ng 2,	487 SM fac	ility placed	l into
service in 196	0 tha	t is primarily u	tilized by 9	90 MU	NS for mai	ntenance and	1
inspection (M&	I).	Aging infrastruc	ture needs n	nassi	ve overhau	il to meet cu	ırrent
standards and	requi	rements. The var	ious mission	ns re	lated to t	the weapons a	are
scattered whic	п теа	las to inefficien	cies in secu	urity	and opera	itions, makin	ig the

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Previous editions are obsolete.

FRANCIS E WARREN AIR FORCE BASE F E WARREN AFB SITE # 1 WYOMING

WEAPON	STORAGE	FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27576	215-582	1833/GHLN153001	95,000

mission more vulnerable. The current facilities do not meet several of the security requirements mandated in DoD security directives. The aging infrastructure requires workarounds to meet mission requirements and the current facilities systems are inadequate to support ongoing intrusive weapons maintenance. The existing facilities have outlived their design life span. O&M sustainment costs are high and deficiencies result in mission impact. Transverse cracking in foundations and structural elements are evidence of an increased risk of structural failure. There is a lack of space for munitions maintenance, admin, safety/security screening equipment, and general storage. Identified requirements to alleviate current conditions in the weapons storage area include 37 repair projects costing in excess of \$64M over the next 6-plus years. Current work-arounds do not address multiple security deviations nor can they realistically address all of the known requirements.

IMPACT IF NOT PROVIDED: The munitions operations will remain at risk due to inefficiencies and failing infrastructure. Mitigations for DoD security requirements for operations in a weapons storage area will continue driving additional inefficiencies and risks. Mission requirements will not be met without significant workarounds due to the condition of the infrastructure and the inability of the current facilities systems to meet current maintenance requirements. Inefficiencies impacting production will continue even as manpower is being reduced further exacerbating mission impacts.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements" and 6055.09-M, Volume 2, "DoD Ammunition and Explosives Safety Standards: Explosives Safety Construction Criteria". 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, i.e., new construction. Therefore, no economic analysis was needed or performed. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. CatCode 215-582 (8,491 SM = 91,397 SF). Demolition 10,454 SM = 112,526 SF. Base Civil Engineer: 307-773-3600.

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

TE # 1 (T) (C) (C) (C) (C) (C) (C) (C) (C	Y CODE 7 32 ates used 01 JAN e analys e Design Recently b) or (d) ad Specif	. PROJECT 1833/GHLN to develo 2015 is was/wii - Used - + (e): ications	NUMBER 1153001 op costs 11 be per:	8. PROJECT 9 (0 2 Eormed	COST (\$000) 5,000 05-OCT-12 60% 21-MAY-14 15-SEP-15 NO NO (\$000) 5,700 2,850
T 6. CATEGORY 215-58 DATA: esign Data: Design Data: Design Started etric Cost Estima nt Complete as of 35% Designed Design Complete y Study/Life-Cycl ard or Definitive Design Was Most st (c) = (a) + (b ction of Plans an cher Design Costs act	Y CODE 7 32 ates used 5 01 JAN a Design Recently b) or (d) ad Specif	. PROJECT 1833/GHLM to develo 2015 is was/wii - Used - + (e): ications	NUMBER 153001 op costs 11 be per:	8. PROJECT 9 (2 Eormed	COST (\$000) 5,000 05-OCT-12 60% 21-MAY-14 15-SEP-15 NO NO (\$000) 5,700 2,850
215-58 DATA: esign Data: Design Data: Design Started etric Cost Estima nt Complete as of 35% Designed Design Complete y Study/Life-Cycl ard or Definitive Design Was Most st (c) = (a) + (b ction of Plans an cher Design Costs act	ates used E 01 JAN Le analys Recently b) or (d) ad Specif	1833/GHLM to develo 2015 is was/wii - Used - + (e): ications	Dp costs	9 (2 Eormed	5,000 05-OCT-12 60% 21-MAY-14 15-SEP-15 NO NO (\$000) 5,700 2,850
DATA: esign Data: Design Started etric Cost Estima nt Complete as of 35% Designed Design Complete y Study/Life-Cycl ard or Definitive Design Was Most st (c) = (a) + (b ction of Plans an cher Design Costs act	tes used 01 JAN e analys e Design Recently o) or (d) d Specif	to develo 2015 - Used - + (e): ications	op costs 11 be per:	(2 I Formed	05-OCT-12 60% 21-MAY-14 15-SEP-15 NO NO (\$000) 5,700 2,850
esign Data: Design Started atric Cost Estima at Complete as of 35% Designed Design Complete y Study/Life-Cycl ard or Definitive Design Was Most st (c) = (a) + (b ction of Plans an cher Design Costs act	tes used 01 JAN e analys Design Recently o) or (d) d Specif	to develo 2015 is was/wi - Used - + (e): ications	op costs 11 be per:	c Z Eormed	05-OCT-12 60% 21-MAY-14 15-SEP-15 NO NO (\$000) 5,700 2,850
Design Started etric Cost Estima at Complete as of 35% Designed Design Complete y Study/Life-Cycl ard or Definitive Design Was Most st (c) = (a) + (b ction of Plans an cher Design Costs act	ates used 01 JAN e analys e Design Recently o) or (d) nd Specif	to develo 2015 is was/wi - Used - + (e): ications	op costs 11 be per:	(2 formed	05-OCT-12 60% 21-MAY-14 15-SEP-15 NO NO (\$000) 5,700 2,850
Design Started atric Cost Estima at Complete as of 35% Designed Design Complete y Study/Life-Cycl ard or Definitive Design Was Most at (c) = (a) + (b ction of Plans an cher Design Costs act	ates used E 01 JAN Le analys Polyson Recently (b) or (d) ad Specif	to develo 2015 is was/wi - Used - + (e): ications	op costs 11 be per:	Eormed	60% 21-MAY-14 15-SEP-15 NO NO (\$000) 5,700 2,850
at Complete as of S5% Designed Design Complete Y Study/Life-Cycl ard or Definitive Design Was Most st (c) = (a) + (b stion of Plans an cher Design Costs act	e analys Design Recently) or (d) d Specif	2015 is was/wi: - Used - + (e): ications	ll be per:	2 Formed	60% 21-MAY-14 15-SEP-15 NO NO (\$000) 5,700 2,850
At Complete as of 35% Designed Design Complete y Study/Life-Cycl ard or Definitive Design Was Most st (c) = (a) + (b stion of Plans an scher Design Costs act	e analys e Design Recently o) or (d) nd Specif	is was/wi - Used - + (e): ications	ll be per:	2 formed	(\$000) 5,700 21-MAY-14 15-SEP-15 NO
Design Complete y Study/Life-Cycl ard or Definitive Design Was Most St (c) = (a) + (b ction of Plans an ther Design Costs act	e analys Design Recently) or (d) d Specif	is was/wi - Used - + (e): ications	ll be per:	formed	15-SEP-15 NO NO (\$000) 5,700 2,850
y Study/Life-Cycl ard or Definitive Design Was Most st (c) = (a) + (b stion of Plans an cher Design Costs act	e analys Design Recently) or (d) d Specif	is was/wi - Used - + (e): ications	ll be per:	formed	NO NO (\$000) 5,700 2,850
ard or Definitive Design Was Most St (c) = (a) + (b Ction of Plans an Cher Design Costs act	Design Recently) or (d) d Specif	- Used - + (e): ications			NO (\$000) 5,700 2,850
ard or Definitive Design Was Most st (c) = (a) + (b ction of Plans an cher Design Costs act	Design Recently (d) or (d) (d) Specif	- Used - + (e): ications			NO (\$000) 5,700 2,850
st (c) = (a) + (b ction of Plans an cher Design Costs act	o) or (d) nd Specif	+ (e): ications			(\$000) 5,700 2,850
ction of Plans an ther Design Costs act	nd Specif	ications			5,700 2,850
ther Design Costs	3				2,850
act					
act					8,550
					7,125
	_				1,425
ion Contract Awa:	rd				16 JAN
ion Start					16 JAN
ion Completion					18 MAR
ssociated with th	nis proje	ct provid	ed from of	ther approp	riations:
	ספפ	CUIDING	FISCA	L YEAR	COST
MENCLATURE	APPR	OPRIATION	OR REQ	QUESTED	(\$000)
TEMS		3080	:	16	20,000
NS EQUIPMENT		3400	:	16	1,500
		3400	:	16	800
	tion Contract Awa tion Start tion Completion ssociated with th MENCLATURE TEMS NS EQUIPMENT	tion Contract Award tion Start tion Completion ssociated with this proje MENCLATURE TEMS NS EQUIPMENT	tion Contract Award tion Start tion Completion ssociated with this project provide MENCLATURE APPROPRIATION TEMS 3080 NS EQUIPMENT 3400 3400	tion Contract Award tion Start tion Completion ssociated with this project provided from of PROCURING APPROF MENCLATURE APPROPRIATION OR REG TEMS 3080 1 NS EQUIPMENT 3400 1	tion Contract Award tion Start tion Completion ssociated with this project provided from other appropriated MENCLATURE APPROPRIATION OR REQUESTED TEMS 3080 16 NS EQUIPMENT 3400 16 3400 16

1. COMPONENT AIR FORCE		F	FY 2016 MILITARY CONSTRUCTION PROGRAM2. DATE							
INSTALLATION AND	D LOCATI	ON		COMMAN	ND:			5. AREA	CONST	
THULE AIR BASE				AIR FOR	CE SPAC	E		COST IN	DEX	
GREENLAND				COMMAN	ND			3.20		
6. Personnel	PEF	RMANENT	-	STU	DENTS		SUF	PPORTED		
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	21	116	495	0	0	0	1	1	77	711
END FY 2019	21	119	490	0	0	0	1	1	77	709
7. INVENTORY DA	ГА (\$000)									
a. Total Acreage:	233,034									
b. Inventory Total as of : (30 Sep 14) 2,729								2,729,328		
c. Authorization Not	Yet in Inv	entory:								90,757
 Authorization Rec 	uested in	this Progr	am: (FY2	2016)						41,965
e. Planned in Next F	our Year	Program:								0
f. Remaining Deficie	ncy:								-	0
g. Grand Total:										2,862,050
8. PROJECTS REQ	UESTED	IN THIS P	ROGRA	M:		(FY 2016)			
CATEGORY						(0.0	/	COST	DESIGN	STATUS
CODE	PROJEC	T TITLE				SCOPE		\$.000	START	CMPL
219-944	Thule Cor	nsolidatior	solidation Phase 1 4 398 SM 41 965 Mar 14						Sep 15	
			,			TOTAL		41,965		·
9a. Future Projects:	Typical F	lanned Ne	ext Four `	Years:						
						τοτλι		0		
	NONE					TOTAL		0		
9b. Real Property M	aintenanc	e Backlog	This Inst	allation: (\$M)					25.8
10. Mission or Major Functions: The base hosts a Space Warning Squadron that is designed to detect and track Intercontinental Ballistic Missiles (ICBMs) launched against North America; hosts a Space Operations Squadronpart of the global satellite control network; operates a 10,000 foot runway supporting 2,600 U.S. and international flights per										
11. Outstanding poll	ution and	Safety (O	SHA) Def	ficiencies:						
a. Air pollution								0		
b. Water Pollution										
	Colot	طالمحلنك						^		
c. Occupational	Salety and	u Health						0		
d. Other Environ	mental							0		

1. COMPONENT		FY 2016 MIL:	ITARY CONSTRU	JCTION	PROJECT DA	TA	2. DATE		
AIR FORCE			(computer gen	nerate	d)				
3. INSTALLATION	, SIT	E AND LOCATION		4. PI	ROJECT TITL	3	·		
THULE AIR BASE				THULE CONSOLIDATION, PHASE 1					
THULE AIR BASE	SITE	# 1							
GREENLAND	12310	C (1) 77 70 77 70 77							
5. PROGRAM ELEM	LEIN I	6. CATEGORY CODE	7. RPSUID/P	ROJECI	I NUMBER	8. PROJECI (COSI (\$000)		
31476		219-944	3339/	WWCX10	3027	4	1,965		
9. COST ESTIMATES									
					01133107032	UNIT	COST		
		LTEM		U/M	QUANTITY		(\$000)		
PRIMARY FACILIT	IES						19,315		
CE ADMINISTRATION (610-127)				SM	585	4,593	(2,687)		
SUPPLY ADMINIS	TRATIC	ON (610-122)		SM	265	4,593	(1,217)		
CE SHOPS (219-	944)			SM	1,943	4,350	(8,452)		
BASE SUPPLY WA	REHOUS	SE (442-758)		SM	1,605	4,100	(6,581)		
SUSTAINABILITY	AND H	ENERGY MEASURES		LS			(378)		
SUPPORTING FACII	LITIES	5					18,246		
SITE PREPARATI	ON/ARC	CTIC FOUNDATIONS		LS			(8,035)		
UTILITIES				LS			(802)		
COMMUNICATIONS				LS			(350)		
DEMOLITION				SM	14,129	612	(8,647)		
PAVINGS, WALKS	, CURE	B, ETC.		LS			(412)		
SUBTOTAL							37,561		
CONTINGENCY (5.0%)							1,878		
TOTAL CONTRACT (COST					-	39,439		
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)							2,564		
TOTAL REQUEST							42,002		
TOTAL REQUEST (ROUNDED)							41,965		
10 Deggninti		Dropogod Constru	ustion. do		at a fagil	· · · · · · · · · · · · · · · · · · ·	na Imatia		

10. Description of Proposed Construction: Construct a facility utilizing Arctic and Subarctic 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. Facility will be designed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01. Includes all utilities, site improvements, communications and all other supporting facilities. Project demolishes 5 buildings; 551, 553, 571, 629, and 1091 totaling 14,129 SM. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 0 Tons

11. Requirement: 4398 SM Adequate: 0 SM Substandard: 14129 SM

PROJECT: Construct a Consolidated Civil Engineering (CE) Shops and Supply Complex. (Current Mission)

REQUIREMENT: Consolidation of base functions are required to support the SECDEFdirected efficiencies initiative. IAW the Thule Base Consolidation Plan, this is one of two consolidation/demolition MILCONs required to reduce the overall base footprint, thus reducing energy costs and manpower requirements by a significant amount. Project demolishes five buildings and the total consolidation frees up other buildings to be reused for low-heat storage and a Sewage Treatment Plant. CURRENT SITUATION: At present, CE shops are scattered all over the Main Base Area

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Previous editions are obsolete.

Page No.

1. COMPONENT	FY 2016 MILI	ATA	2. DATE			
AIR FORCE	(computer ger	nerated)			
3. INSTALLATION, SI	ITE AND LOCATION	4. PROJECT TITLE				
THULE AIR BASE			THULE CONSOLIDATION, PHASE 1			
THULE AIR BASE SIT	E # 1					
GREENLAND						
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CC	ST (\$000)	

3339/WWCX103027

and require a large utility distribution system and infrastructure. Most buildings lack fire suppression and contain asbestos. Associated operations, maintenance, and energy costs for these facilities and infrastructure are very high. Fuel and Base Operations Support (BOS) contract costs are on track to exceed \$100 million over the FYDP. Existing buildings are located outside of the future Base Consolidation "Thule Triangle" Area.

219-944

IMPACT IF NOT PROVIDED: Thule Air Base, an installation uniquely suited geographically to support AFSPC missions of satellite command and control and the Ballistic Missile Early Warning System, will continue to consume Air Force funding and resources at an increasing rate to pay for fuel and BOS while maintaining status quo of inadequate, inefficient facilities and failing to comply with governing rules and regulations for fire safety, energy conservation and standards for working environment. The costs of operation, maintenance and repairs will continue to increase just to keep the 1950s-vintage inefficient facilities. This project demolishes over 14,000 SM and consolidates CE and Supply functions into a greatly reduced footprint which will bring down energy and BOS costs considerably. 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, revitalization, renovation, upgrade/removal, new construction) was done. Based on the present value and benefits of the respective alternatives, new construction was found to be the 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 IAW UFC 1-200-02 dated 1 March 2013. 21 SW Base Civil Engineer: (719) 556-7631. CE Administration: 585 SM = 6,295 SF; CE Shops: 1.943 SM = 20,907 SF; Supply Administration: 265 SM = 2,852 SF; Base Supply Warehouse: 1,605 SM = 17,270 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: DANISH KRONER 5.5515 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.

31476

41,965

1. COMPONENT		FY 2016 MILITARY CO	DATA	2. DATE		
AIR FORCE		(compute	er gene	rated)		
3. INSTALLATI	ON AND I	LOCATION		4. PROJECT	TITLE	
THULE AIR BAS THULE AIR BAS GREENLAND	E E SITE ‡	ŧ 1		THULE CONSO	LIDATION, PHAS	E 1
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)
31476		219-944	3339/	WWCX103027	41,	965
12. SUPPLEMEN	TAL DAT	A:				
a. Estimate	d Design	n Data:				
(1) Statu	IS:					
(a) Da	te Desig	gn Started			15	-MAR-14
(b) Pa	rametri	c Cost Estimates use	ed to de	evelop costs		YES
* (c) Pe	ercent Co	omplete as of 01 JAN	1 2015			15%
* (d) Da	te 35% 1	Designed			16	-DEC-14
(e) Da	te Desig	gn Complete			28	-SEP-15
(f) Er	ergy St	udy/Life-Cycle analy	vsis was	s/will be per	formed	YES
(2) Basis	:					
(a) St	andard o	or Definitive Design	1 -			NO
(b) Wh	ere Des	ign Was Most Recentl	y Used	-		
(3) Total	Cost ((a) = (a) + (b) or (d)) + (a)			(\$000)
(3) IOCAI	oduatio	$c_{j} = (a_{j} + (b_{j})) $ of c_{j}	figatio	· •		2 520
(a) FI (b) A1	1 Othor	Degige Costs	IICacit	5115		1 260
(D) A1	.i Other	Design Costs				3 780
(d) (c)	ntract					3,700
	-house					585
		- · ·				
(4) Const	ruction	Contract Award				16 MAR
(5) Const	ruction	Start				16 MAY
(6) Const	ruction	Completion				18 JUL
* 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 esign to ensu	etric Cost Es re valid scop	timate e,
b. Equipmer N/A	it assoc:	iated with this proj	ject pro	ovided from c	ther appropri	ations:

1. COMPONENT		FY 2016 MILITARY CONSTRUCTION PROGRAM 2. DATE								
AIR FORCE										
INSTALLATION ANI	D LOCAT	ION		COMMAI	ND:			5. AREA	CONST	
JRM - ANDERSEN /	AIR FORC	CE BASE		PACIFIC	AIR FOR	CES		COST INDEX		
GUAM								2.32		
6. Personnel	PEF	RMANENT		STU	IDENTS		SUF	PORTED)	
Strength (AF Only)	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	158	1,595	376	0	0	0	0	0	0	2,129
END FY 2019	158	1,643	383	0	0	0	0	0	0	2,184
7. INVENTORY DA	TA (\$000)									
a. Total Acreage: 20,270										
b. Inventory Total as	of : (30 \$	Sep 14)								6.145.097
c. Authorization Not	Yet in Inv	entory:								86.992
d. Authorization Reg	uested in	this Progr	am:							85,200
e Planned in Next F	our Years	Program								157 700
f Remaining Deficie	ncv.	riogram								775 459
a Grand Total	noy.									7 250 448
g. Oranu rotai.										7,200,440
8 PROJECTS REC	UESTED	IN THIS F		M·			(FY 2016	3)		
			1100101				(1 1 2010	COST	DESIGN	STATUS
CODE	PROJEC	T TITI F				SCOPE		\$ 000	START	CMPI
141-461	APR - Ins	tallation (Control Ce	onter		1 143	SM	22 200	May 14	Sen 15
211-150		/Corrosio	n Control	/Comn Rn	r	2 280	SM	34 400		Sep 12
112-758	ADD Dispersed Maint Sparse & SE Storage E(5.742 SM = 10.000 Design/Duild)									
932,266		with Domo	Litilition		storage i c	4 200	SM SM	7 100	Mov 1/	Son 15
052-200	DDTC D	oodo	Ounties			4,200	SM	2 500	Docian/P	Seb 12
001-147	FRIC R	Uaus				29,019	3101	2,500		ullu
						TOTAL		05,200		
		nical Plan	nad Navt	Four Voa	re.					
	_010. Ty	picarriari			13.					
131-116					,			10 700		
832,266		orth Domo	Litilition					147 000		
032-200	AFK - NU	пп капр	Ounties			τοτλι		147,000	-	
						TOTAL		157,700		
0b Roal Property M	laintanan	o Pooklar	This Inc	tollation: ((¢ N <i>A</i>)					120
90. Real Flopelly IV					φινι)	ling (20 \		the prime		129
TO. MISSION OF Major	Function	s: Anderse		nome to		/ing (36 v	vG) with	the prima	ry mission	to employ,
deploy, integrate, an	d enable	air and spa	ace force	s from the	e most forv	vard US s	overeign	air force	<i>"</i>	
base in the Pacific.	Provides	continuous	s bomber	presence	365 days	per year	to suppor	rt US Paci	fic Comma	and.
Provides a Continge	ncy Resp	onse Grou	ip with a	"911 force	" capabilit	y to quick	ly deploy	to any ho	t spot in th	ie region to
quickly open and op	erate an a	air base foi	r both cor	mbat and	humanitari	an assist	ance miss	sions. Hos	sts AMC a	r mobility
squadron and Navy	helicopter	sea comb	bat squad	lron.						
11. Outstanding pol	lution and	Safety (C	SHA Def	iciencies)						
a. Air pollution	a. Air pollution 0									
b. Water Pollution 0										
_										
c. Occupational Safety and Health 0										
d. Other Enviror	nmental							0		

1. COMPONENT		FY 2016 MILI	ITARY CONSTRU	CTION	PROJECT DA	TA	2. DATE		
AIR FORCE			(computer ger	erate	d)				
3. INSTALLATION	, SITI	E AND LOCATION		4. PF	OJECT TITL	Ξ			
JRM - ANDERSEN				APR INSTALLATION CONTROL CENTER					
ANDERSEN AF BAS	E SIT	£ # 1							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	PROJECT NUMBER 8. PROJECT COST (\$000)					
27256		141-461	1366/2	/AJJY150600			2,200		
		9.	COST ESTIM	TES					
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)		
PRIMARY FACILITIES									
INSTALLATION CO	ONTROI	CENTER		SM	1,142	14,098	(16,100)		
SUSTAINMENT AND	D ENEF	RGY MEASURES		LS			(408)		
SUPPORTING FACII	ITIES						3,377		
ELECTRICAL				LS			(259)		
WATER, SEWER GA	AS			LS			(99)		
PAVEMENTS				LS			(135)		
SITE IMPROVEMEN	NTS			LS			(747)		
COMMUNICATIONS				LS			(1,297)		
ARCHEOLOGICAL MONITORING							(75)		
EXPLOSIVE SAFETY COMPLIANCE							(616)		
ENVIRONMENTAL REMEDIATION							(150)		
SUBTOTAL							19,886		
CONTINGENCY	(5	i.0%)					994		
TOTAL CONTRACT C	COST					-	20,880		
SUPERVISION, INS	PECTI	ON AND OVERHEAD	(6.2%)				1,295		
TOTAL REQUEST						-	22,174		
TOTAL REQUEST (F	OUNDE	D)					22,200		
EQUIPMENT FROM C	THER	APPROPRIATIONS (NON	I-ADD)				1,700.0		
10. Descripti	on of	Proposed Constru	uction: Con	nstru	cts a hard	lened Wing In	nstallation		
Control Center	(ICC) comprised of th	ne Command	Post,	Crisis Ac	tion Team ((CAT) and		
the Emergency	Opera	tions Center (EOC	C) using eco	onomi	cal design	and constru	uction		
methods to acc	ommod	late the mission o	of this fac	ility	. The faci	lity will co	mply with		
applicable DoD	, Air	Force and base of	lesign stand	dards	as applic	able. In add	lition,		
local material	s and	l construction tec	chniques sha	all b 1i⊢n	e used whe	en cost effec	tive. The		
338 kilometer-	per-h	our winds, and se	eismic crit	eria	for Site C	lass B from	Unified		
Facilities Cri	teria	(UFC) 3-301-01 d	dated 1 Jun	e 201	3, UFC 3-3	10-04, and 1	IBC		
2012/ASCE 7-10	. Fac	ilities will be d	designed as	perm	anent cons	struction in	accordance		
with the DoD U	nifie	d Facilities Crit	ceria (UFC)	1-20	0-01. Thi	s project w	ill comply		
with DoD antit	error	ism/force protect	tion require	ement	s per UFC	4-101-01.			
Air Conditioni	ng:	37 Tons							
11. Requiremen	t: 11	42 SM Adequate	e: 0 SM :	Subst	andard: 48	5 SM			
PROJECT: Cons	truct	an Air Power Rea	siliency (A	PR) I	nstallatio	on Control Co	enter (New		
MISSION)	_			-					
REQUIREMENT:	A res	allient Installati	ion Control	Cent	er is cruc	ial to susta	ained		
criticality to	regi	onal security, ar	h Air Force	/Navy	Joint War	fighter grou	105 10		

DD FORM 1391, DEC 99

Previous editions are obsolete.

1. COMPONENT	FY 2016 MILITARY CONSTRU	JCTION PROJECT DATA	2. DATE
AIR FORCE	(computer gen		
3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TITLE	
JRM - ANDERSEN		APR INSTALLATION CONTROL CENTE	R

JRM - ANI	DER	SEN				
ANDERSEN	AF	BASE	SITE	#	1	
GUAM						

GUAM			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27256	141-461	1366/AJJY150600	22,200

determined that hardened structures to protect the Installation Control Center were necessary for resilience of the IC2 system.Hardening this key command and control center is essential to counter identified threats and prevent loss of life as well as critical resources and functions inside this facility.

CURRENT SITUATION: The Installation Control Center is divided between two locations, with the Command Post and Crisis Action Team in Building 23028, and the Emergency Operations Center in B-18001. Neither B-23028 nor B-18001 are hardened structures, operations at either facility could be disrupted in the event of a contingency.

IMPACT IF NOT PROVIDED: Strikes from new threat weaponry on critical and specific targets on Andersen will interrupt sortie generation capability. Hardening this key command and control center is essential to counter identified threats and prevent loss of life as well as critical resources and functions inside this facility. Without hardening, Andersen's IC2 system is more vulnerable to temporary loss and mission failure. This project will provide the Emergency Operations Center, Crisis Action Team, and Command Post with protection and resiliency in case of natural or manmade contingency operations.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements" ; Unified Facilities Criteria 4-141-04, "Emergency Operations Center Planning And Design"; and AFI 10-207, Operations: Command Posts, as applicable. Because constructing a hardened structure to protect the Installation Control Center is the only feasible way to meet this requirement, an economic analysis was not performed. A certificate of exception has been approved. The costs for the hardened structure in this project are higher than the costs for an unhardened facility. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (671) 366-7101. Installation Control Center: 1,142 SM = 12,292 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 2016 MILITARY	CONSTRUC	TION PROJECT	DATA	2. DATE			
AIR FORCE		(compu	ter gene	rated)					
3. INSTALLATI	ON AND L	OCATION		4. PROJECT	TITLE				
JRM - ANDERSE ANDERSEN AF B	N ASE SITE	: # 1		APR INSTALL	ATION CONTROL	CENTER			
GUAM					1				
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CO	OST (\$000)			
27256		141-461	1366/	AJJY150600	22,	,200			
12. SUPPLEMEN	TAL DATA	A:							
a. Estimate	d Design	n Data:							
(1) Statu	s:								
(a) Da	te Desig	n Started			21	-MAY-14			
(b) Pa	rametrio	Cost Estimates u	sed to d	evelop costs		YES			
* (c) Pe	ercent Co	omplete as of 01 J	AN 2015			15%			
* (d) Da	te 35% I	Designed			31	-MAR-15			
(e) Da	te Desig	yn Complete			30	-SEP-15			
(f) Energy Study/Life-Cycle analysis was/will be performed YES									
(2) Basis:									
(a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used -									
(3) Total	Cost (c	(a) = (a) + (b) or	(d) + (e):		(\$000)			
(a) Pr	1,332								
(b) Al		666							
(c) To	tal					1,998			
(d) Co		1,665							
(e) In	-house					333			
(4) Const	ruction	Contract Award				16 FEB			
(5) Const	ruction	Start				16 MAR			
(6) Const	ruction	Completion				18 MAR			
* Indicat which i cost an	es compl s compan d execut	letion of Project : rable to tradition rability.	Definitio al 35% do	on with Paramesign to ensu	netric Cost Es nre valid scop	timate e,			
b. Equipmen	It assoc	lated with this pr	oject pr	ovided from c	other appropri	ations:			
				FISC	AL YEAR	COGT			
EQUIPMEN	r nomenc	LATURE A	PPROPRIA	TION OR RE	QUESTED	(\$000)			
FURNISHI	NGS		3400	2	2017	650			
COMM EQU	IPMENT		3080	2	2017	300			
OTHER EQUIPMENT 3400 2017									
DD FORM 1391 . I	DEC 99	Previous e	ditions	are obsolete		Page No.			

1. COMPONENT		FY 2016 MILI	TARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE			
AIR FORCE		((computer ger	erate	d)					
3. INSTALLATION JRM ANDERSEN ANDERSEN AF BAS GUAM	3. INSTALLATION, SITE AND LOCATION JRM ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM				4. PROJECT TITLE PAR LOW OBSERVABLE/CORROSION CONTROL/COMPOSITE REPAIR SHOP					
5. PROGRAM ELEM	5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/PF					ROJECT NUMBER 8. PROJECT				
27576		211-159	1366/2	AJJY13	3028	AUTH: 0 A	APPN: 34,400			
	9. COST ESTIMATES									
ITEM					QUANTITY	UNIT	COST (\$000)			
PRIMARY FACILITIES				CM	2 280	9 6 9 9	22,626			
L.O./CORROSION CONTROL/COMPOSITE REPAIR FAC					2,205	3,003	(448)			
SUSTAINADILITT AND ENERGY MEASURES							8,219			
UTTLITTES	INTI TATES						(2,769)			
SITE IMPROVEME	NTS			LS			(1,886)			
PAVEMENTS				LS			(627)			
COMMUNICATIONS				LS			(33)			
INJECTION WELL	s			LS			(215)			
EXPLOSIVE SAFE	TY SUE	MISSION COMPLIANCE		LS			(890)			
CARGO DEPLOYME	NT FAC	CILITY RENOVATION		SM	1,216	1,115	(1,356)			
ENVIRONMENTAL	REMEDI	LATION		LS			(150)			
ARCHEOLOGICAL	MONITO	DRING		LS			(87)			
DEMOLITION				SM	1,337	154	(206)			
SUBTOTAL							30,845			
CONTINGENCY	(5	5.0%)					1,542			
TOTAL CONTRACT (COST						32,387			
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.2%)				2,008			
TOTAL REQUEST							34,395			
TOTAL REQUEST (F	ROUNDE	:D)					34,400			
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							(250.0)			
10. Descripti	on of	Proposed Constru	uction: Com	nstru	ct the fac	ility utili	zing			

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 project includes demolition of three buildings (1,337 SM). The fire suppression system will consist of fire sprinkler and foam systems, foam pump system, and fire foam holding tanks. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. The project will include electrical, mechanical, water, communication, fire suppression/detection, air conditioning system with humidity environmental controls, utilities, pavements, parking, an oil water separator, associated site improvements, archeological monitoring and all necessary supporting facilities for a complete and usable facility. This project includes the renovation of an existing building to relocate the Cargo Deployment Facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

DD FORM 1391, DEC 99

1. COMPONENT		FY 2016 MIL	ITARY CONSTRU	JCTION PROJECT DA	TA	2. DATE					
AIR FORCE			(computer gen	nerated)							
3. INSTALLATION	, SITI	E AND LOCATION		4. PROJECT TITLE	2						
JRM ANDERSEN				PAR LOW OBSERVAR	BLE/CORROSION						
ANDERSEN AF BAS	E SIT	E # 1		CONTROL/COMPOSIT	TE REPAIR SHOP						
GUAM											
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CO	OST (\$000)					
27576		211-159	1366/.	AJJY133028	AUTH: 0 APE	?N: 34,400					
Air Conditioni	ng:	245 Tons									
11. Requiremen	t: 22	89 SM Adequate	e: SM S	ubstandard: 527	SM						
PROJECT: Cons	truct	a low observable	e/ corrosio	n control/ comp	osite repair	shop.					
(New Mission)											
REQUIREMENT:	For t	his Pacific Airpo	ower Resili	ency (PAR) proj	ect, an adequ	uately					
sized and conf	igure	d shop is require	ed to provi	de environmenta	lly controlle	ed areas					
for on-aircraf	t Low	Observable rest	oration and	repair in supp	ort of the PA	AR					
mission. The s	hop i	s required to sup	pport a Con	tinuous Bomber	Presence (CBI	P), Tanker					
Task Force (TT	F), G	lobal Hawk, and t	the Theater	Security Packa	ges (TSP). F	ighter					
aircraft requi	re en	vironmentally con	ntrolled ar	eas for on-airc	raft LO resto	oration					
and repair. A	singl	e bay and worksho	op support	areas for prepa	ration and cu	ure are					
required to support LO maintenance. The facility is required to provide an											
composite repairing, paint stripping, and repainting of aircraft parts. The											
facility is required to provide functional area for a corrosion control shop to											
include preparation and drying areas, abrasive blasting rooms, paint booths for											
mixing and or applying paint, tool storage, lockers, and administrative support											
functions.											
CURRENT SITUATION: Corrosion control and composite repair capability is currently											
limited to one	smal	l facility. Ander	rsen facili	ties can suppor	t only minor	_					
protective coa	ting	repair capability	y for a sma	ll contingent c	of aircraft w:	ith a					
minimal flying	sche	dule. Andersen de	oes not hav	e the extensive	e maintenance						
infrastructure	requ	ired to support a	a home stat	ion Global Hawk	capability a	along with					
a CBP, TTF, TS	P, an	d aerospace grou	nd equipmen	t (AGE). Repair	of aircraft						
components alo	ng so	heduled isochrona	al and corr	osion inspectio	ons/maintenand	ce					
necessitates n	ew fa	cilities for corr	rosion cont	rol. The existi	ng Cargo Dep.	loyment					
Facility (CDF)	15 1 	m the rootprint (bi the new	racility, and w	CDF	ated to an					
	1 L Y ,	which will be iel		accommodate the							
IMPACT IF NOT	PROVI	DED: Without the	is facility	, Andersen will d somposite mor	be unable to	o provide					
Continuous Bom	bserv ber I	Presence (CBP) T	control, an anker Task	a composite rep Force (TTF) ar	d the Thester	r Security					
Packages (TSP)	. Lac	k of this facilit	tv would si	gnificantly red	luce readines:	s, and					
could result i	n dec	radation of operation	ational cap	ability, and ma	y increase po	otential					
for a serious	misha	-	-	•							
ADDITIONAL: T	his r	project meets the	criteria/	scope specified	l in Air Force	e Handbook					
32-1084, Facil	ity F	Requirements, F-2	2 Facilitie	s Requirements	Plan Revision	n W, 2008,					
and PACAF Logi	stics	Facilities Plan	ning Guide.	This project	was authorize	ed in the					
2015 National	Defer	se Authorization	Act; there	fore this proje	ect only seeks	s the					
appropriation	to fu	and this project.	Prelimina	ry analysis of	reasonable o	ptions for					
satisfying thi	s req	uirement indicat	ed only one	option will me	et mission no	eeds, new					
construction. Therefore, an economic analysis certificate of exemption has been											
completed. Sustainable principles, to include life cycle cost effective practices,											
will be integr	ated	into the design,	aevelopmen	t, and construct	tion of the p	project in					
7101 Jour Ob-	11 UFC	1 - 200 - 02, dated	I March 20	IS. Base Civil	. Engineer: ()	0/1) 300- 24 6/2					
1101. LOW UDSe	r vaDl	e, corroston con	cror/ compo	site Kepair Sho		27,043					
DD FORM 1391, 1	DEC 9	9 Previo	ous editions	s are obsolete.	P	age No.					
1. COMPONENT AIR FORCE	FY 2016 MIL	NTA	2. DATE								
--	---	-------------	---	--------------------------------------	--	--	--	--	--	--	--
3. INSTALLATION, SI JRM ANDERSEN ANDERSEN AF BASE SI GUAM	TE AND LOCATION		4. PROJECT TITL PAR LOW OBSERVA CONTROL/COMPOSI	E BLE/CORROSION TE REPAIR SHOP							
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/P	7. RPSUID/PROJECT NUMBER 8. PROJECT (
27576 SF; Cargo Deployme JOINT USE CERTIFIC available" basis;	27576211-1591366/AJJY133028AUTH: 0 APPN: 34,400SF; Cargo Deployment Facility: 1,216 SM = 13,089 SF.JOINT USE CERTIFICATION: This facility can be used by other components on "as available" basis; however, scope is based on AF requirements.										

1. COMPONENT		FY 2016 MILITA	RY C	ONSTRUC	TION PRO	JECT	DATA	2. DATE
AIR FORCE		(00	mput	er gene:	rated)			
3. INSTALLATI	ON AND L	OCATION			4. PROJ	ECT 1	TITLE	
JRM ANDERSEN ANDERSEN AF B GUAM	ASE SITE	8 # 1			PAR LOW CONTROL	OBSI	ERVABLE/CORROS POSITE REPAIR	SION SHOP
5. PROGRAM EL	EMENT	6. CATEGORY C	CODE	7. PRO	JECT NUM	BER	8. PROJECT CO)ST (\$000)
27576		211-159		1366/	AJJY1330	28	AUTH: 0 API	PN: 34,400
12. SUPPLEMEN	TAL DAT	A:						
a. Estimate	ed Design	n Data:						
(1) Statu	IS:							
(a) Da	te Desig	gn Started					11	-JUL-11
(b) Pa	rametrio	Cost Estimate	s use	ed to de	evelop co	osts		YES
* (c) Pe	ercent Co	omplete as of 0	1 JAN	1 2015				100%
* (d) Da	te 35% I	Designed					30	-MAR-12
(e) Da	te Desig	gn Complete					28	-SEP-12
(f) Er	ergy Stu	udy/Life-Cycle	analy	ysis was	s/will be	e per	formed	YES
(2) Basis	:							
(a) St	andard o	or Definitive D	esigr	1 -				NO
(b) Wh	ere Desi	ign Was Most Re	cent	ly Used	-			
(3) Total	. Cost (d	(a) = (a) + (b)	or (d	l) + (e)):			(\$000)
(a) Pr	oduction	n of Plans and	Speci	ficatio	ons			2,064
(b) Al	1 Other	Design Costs						1,032
(c) To	tal							3,096
(d) Co	ntract							2,580
(e) In	-house							516
(4) Const	ruction	Contract Award						16 FEB
(5) Const	ruction	Start						16 MAR
(6) Const	ruction	Completion						18 MAR
* Indicat which i cost an	es compl s compan d execut	letion of Projectable to tradit.	ct De ional	efinitic 1 35% de	on with H esign to	Param ensu	etric Cost Es re valid scop	timate e,
b. Equipmer	nt associ	iated with this	pro	ject pro	ovided fi	rom o	ther appropri	ations:
EQUIPMEN	I NOMENC	LATURE	P API	ROCURIN PROPRIAT	G Z	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED	COST (\$000)
COMMUNIC	ATIONS E	QUIPMENT		3400		2	017	50
FURNISHINGS AND EQUIPMENT 3400 2017							200	

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION	PROJECT DA	ГА	2. DATE	
AIR FORCE		(c	computer gen	erate	d)			
3. INSTALLATION	, SITE	E AND LOCATION		4. PI	ROJECT TITLE	:	·	
JRM - ANDERSEN				APR -	- DISPERSED	MAINTENANCE S	SPARES AND SE	
ANDERSEN AF BAS	E SITH	3 # 1		STOR	AGE FACILITY			
GUAM		c						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	/. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27576		442-758	1366,	AJJY1	63004	<u>-</u>	19,000	
		9. 0	COST ESTIMA	TES				
		ттъм		TT /M	OUDNETEN	UNIT	COST	
		11EM		07M	QUANIIII		(\$000)	
PRIMARY FACILIT	IES						14,089	
DISPERSED MAIN	I SPAR	ES AND SE STORAGE FA	AC	SM	5,743	2,405	(13,813)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(276)	
SUPPORTING FACE	LITIES						2,572	
UTILITIES				LS		İ	(83)	
PAVEMENTS				LS		İ	(308)	
SITE IMPROVEME	NTS			LS		ĺ	(775)	
DEMOLITION (HO	RIZONT	AL PARKING AREA)		SM	10,200	45	(461)	
COMMUNICATIONS				LS			(29)	
ARCHAEOLOGICAL	MONIT	ORING		LS			(75)	
EXPLOSIVE SAFE	TY SUB	MISSION COMPLIANCE		LS			(691)	
ENVIRONMENTAL	REMEDI	ATION		LS			(150)	
SUBTOTAL							16,661	
CONTINGENCY	(5.0%)					833	
TOTAL CONTRACT	COST					-	17,494	
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(6.2%)				1,085	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF 8	SUBTOTAL)				666	
TOTAL REQUEST							19,245	
TOTAL REQUEST (1	ROUNDE	D)					19,000	
EQUIPMENT FROM (EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) 250							
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ict a conti	ngency repa	ir parts	
warehouse usin	ig ecc	nomical design and	d construc	tion	methods to	accommodat	e the	
mission of the	e inst	allation. The fac:	ility shou	ld be	e compatibl	e with appl	icable DoD,	
construction t	echni	ques shall be used	as appirca d when cos	t eff	ective. T	he warehous	e will be a	

mission of the installation. The facility should be compatible with applicable DoD, Air Force and base design standards as applicable. In addition, local materials and construction techniques shall be used when cost effective. The warehouse will be a steel-frame superstructure with precast concrete panels for the exterior skin. Roll-up doors will be provided on the sides and man doors will be provide at either end and at intervals on each side. The project will include electrical, mechanical, water, communication, air conditioning, pavements, demolition of existing pavement/utilities, and other associated site improvements, and all necessary supporting facilities for a complete and usable facility. The facility must be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01. Air Conditioning: 206 Tons

11. Requirement: 31875 SM Adequate: 12475 SM Substandard: 11294 SM PROJECT: Asia Pacific Resiliency (APR) Dispersed Maintenance Spares and Support

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Previous editions are obsolete.

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	JCTION PROJECT DAT	ГА	2. DATE			
AIR FORCE		(c	computer gen	nerated)					
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE	1				
JRM - ANDERSEN				APR - DISPERSED	MAINTENANCE SP	ARES AND SE			
ANDERSEN AF BAS	E SITE	:#1		STORAGE FACILITY					
GUAM									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)			
27576		442-758	1366	/AJJY163004	19	,000			
Equipment (SE)	Stor	age Facility (New	Mission)						
REQUIREMENT: Resilient airfield pavements and fuel system are crucial to									
sustaining ope	ratic	ons at Andersen Ai:	r Force Ba	se. Tropical cy	clones regul	arly			
affect Guam an	d pos	e a risk to these	mission-c	ritical assets.	Due to Guam	's remote			
location and i	ts cr	iticality to regio	onal secur	ity, an Air For	ce/Navy Join	t			
Warfighter gro	oup de	termined that prep	positionin	g stocks of rap	id runway re	pair			
material and f	uels	system repair par	ts was nec	essary for resi	liency of th	e airfield			
and fuel syste	em. A	nalysis of the st	orage spac	e needed for th	ese critical				
resiliency spa	ces i	ndicates a warehow	use with o	pposing roll up	doors is ne	cessary to			
meet the requi	remen	it.							
CURRENT SITUAT	ION:	At Andersen, the	existing	war reserve mat	eriel wareho	uses are			
at capacity. I	'here	are no other asse	ts availab	le to provide c	overed stora	ge for			
pre-positioned	l repa	ir parts and mate:	riel.						
IMPACT IF NOT	PROVI	DED: Without pre	positioned	l stocks of repa	ir parts and	materiel,			
Andersen's air	field	pavements and fu	el system	are more vulner	able to temp	orary loss			
and potential	missi	on failure. This	project wi	ll provide cove	ered space in	which to			
store the part	s and	materiel that wo	uld be use	d to repair the	airfield an	d fuel			
system in case	ofn	atural or manmade	contingen	cy operations.					
ADDITIONAL: 1	'his p	roject meets appl:	icable cri	teria/scope spe	cified in Ai	r Force			
Manual 32-1084	., "Fa	cility Requirement	ts" and AF	'I 25-101, War R	eserve Mater	iel (WRM)			
Program Guidan	ice an	d Procedures, as a	applicable	. A preliminary	analysis of				
reasonable opt	ions	for satisfying the	is require	ment indicates	that only on	e option			
(new construct	ion)	will meet mission	needs; th	erefore, a comp	lete economi	c analysis			
was not perfor	med a	nd a certificate o	of excepti	on has been pre	pared. Susta	inable			
principles, to	incl	ude life cycle coa	st effecti	ve practices, w	vill be integ	rated into			
the design, de	velop	ment, and construe	ction of t	he project in a	ccordance wi	th UFC 1-			
200-02, dated	1 Mar	ch 2013. Base Ci	vil Engine	er: 671-366-710	1. Dispersed				
Maintenance Sp	ares	and SE Storage Fa	cility: 5,	743 SM = 61,817	SF.				
JOINT USE CERT	IFICA	TION: This facili	ty can be	used by other o	components on	an "as			
available" bas	sis; h	owever, the scope	of the pr	oject is based	on Air Force				
requirements.									

							1		
1. COMPONENT		FY 2016 MILITARY	CONSTRU	JCTION	PROJECT	DATA	2	. DATE	
		OCARTON	icer ger						
3. INSTALLATI	ON AND I	OCATION		4. PR	OJECT TI	гье 			
JRM - ANDERSE	N			APR -	DISPERS	ED MAINTENANC	E SI	PARES AND	
ANDERSEN AF E	ASE SIT	5 # L		SE ST	ORAGE FA	CILITY			
5. PROGRAM EL	EMENT	6. CATEGORY CODE	5 7. PI	ROJECT	NUMBER	8. PROJECT CO	OST	(\$000)	
27576		442-758	136	6/AJJY	163004	19	,00	0	
12. SUPPLEMEN	d Desig	A: Data:							
(1) Proje	at to be	accomplished by a	lesion-	build	procedur	95			
(1) FIOJE (2) Bagig		accomprished by (lebign-	burra	procedur	65			
(2) Dasis (a) St (b) Wi	• candard here Des	or Definitive Desi ign Was Most Recen	.gn - itly Use	ed -				NO	
(3) All O	ther Des	ign Costs	-					760	
(4) Const	ruction	Contract Award					16	FEB	
(5) Const	ruction	Start					16	MAR	
(6) Construction Completion									
(7) Energ	y Study/	Life-Cycle analys:	is was/	will b	e perfor	med		YES	
EQUIPMEN:	I NOMENC	PR	OCURING	APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)	
WADEHOUS		DATORE	240	n	OK KE			220	
FURNISHI	NGS		340	0	2	2017		15	
COMPUTER	EQUIPME	NT	340	0	2	017		15	
	~ -							-	

1. COMPONENT		FY 2016 MIL]	ITARY CONSTRU	CTION	PROJECT DA	TA	2. DATE	
AIR FORCE			(computer gen	erate	a)			
3. INSTALLATION	, SITI	E AND LOCATION		4. PF	ROJECT TITLE	2		
JRM - ANDERSEN				APR S	OUTH RAMP U	JTILITIES PHA	SE 2	
ANDERSEN AF BAS	E SIT	E # 1						
GOAM						0 000 7000	202m (4000)	
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PF	ROJECI	NUMBER	8. PROJECT	COST (\$000)	
27576		832-266	1366/2	JJY14	3030		7,100	
		9.	COST ESTIMA	TES				
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILITI	IES						4,475	
SANITARY SEWER	(832-	-266)		м	3,200	890	(2,848)	
ELECTRICAL (81)	2-225)			м	1,000	1,443	(1,443)	
SUSTAINABILITY	AND B	NERGY MEASURES		LS		-	(184)	
							1 000	
SUPPORTING FACIL	TTTES						1,899	
PAVEMENTS				LS			(511)	
SITE IMPROVEMEN	NTS			LS			(94)	
SITE DEMOLITION	N			SM	2,637	80	(210)	
ARCHEOLOGICAL I	MONITO	DRING		LS			(75)	
ENVIRONMENTAL I	REMEDI	LATION CONDITING		LS			(37)	
EXPLOSIVE SAFE.	LA ROF	SMISSION COMPLIANCE		LS			(972)	
SUBICIAL							6,3/4	
CONTINGENCY	(5	0.0%)						
TOTAL CONTRACT C	OST						6,693	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.2%)				415	
TOTAL REQUEST							7,108	
TOTAL REQUEST (F	ROUNDE	D)					7,100	
10. Description	on of	Proposed Constru	uction: Thi	s pr	oject cons	tructs util	ities and	
infrastructure	usin	ig economical desi	ign and cons	struc	tion metho	ds to accom	modate the	
Air Force, and	hase	design standards	. In addit	ion.	local mat	erials and	DIE DOD,	
construction t	echni	ques shall be use	ed where cos	st ef	fective.	Work includ	les	
installing a s	anita	- ry sewer system,	upgrading p	oumps	, motors,	and control	lers at	
sanitary sewer	stat	ions, and install	ling a sanit	ary	sewer ford	e main, SCA	DA system,	
and new underg	round	l electric distrib	oution syste	ems.	Pavements	will be cu	it/	
demolished (ap	proxi	mately 2,637 SM)	and rebuilt	as:	needed. F	'acilities w	vill be	
designed as per	rmane	ent construction	In accordance	e w1	th the DoD) Unified Fa	cilities	
protection reg	uirem	ents per UFC 4-1	jee wiii con 01-01.	ъту	WICH DOD a	increerioris	III/ IUICE	
11. Requirement	t: 42	00 M Adequates	20M Sul	ostan	dard: 0 M			
DBO TECT . Cong	+	Agia Dagifig Roy	dilionar (Al		outh Bamp	IItilition I	baga 2	
(New Mission)	cruci	ASIA PACILLE REA	SITIENCY (A	r) S	outh Ramp	otificies P	mase 2.	
REQUIREMENT:	For +	his APR project	adequate ur	orad	es of util	ities and		
infrastructure	infrastructure properly sized and configured are required to support both the South							
Ramp Tanker Ta	sk Fc	orce (TTF) buildur	and the Ma	in B	ase. To a	dequately s	upport the	
planned facili	ties,	it is a requirem	ment to inst	all	a sanitary	sewer syst	em, upgrade	
pumps, motors,	emer	gency generator p	power, and o	ontr	ollers at	sanitary se	wer	
stations, sani	tary	sewer force main,	, supervisor	y co	ntrol and	data acquis	ition	
DD FORM 1391, I	DEC 9	9 Previo	ous editions	are	obsolete.		Page No.	
				-				

 1. COMPONENT
 FY 2016 MILITARY CONSTRUCTION PROJECT DATA
 2. DATE

 AIR FORCE
 (computer generated)
 2. DATE

 3. INSTALLATION, SITE AND LOCATION
 4. PROJECT TITLE

 JRM - ANDERSEN
 APR SOUTH RAMP UTILITIES PHASE 2

 ANDERSEN AF BASE SITE # 1
 UNITIAL CONSTRUCTION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27576	832-266	1366/AJJY143030	7,100

system (SCADA), and new underground electric distribution systems.

CURRENT SITUATION: The existing infrastructure is degraded and at capacity for the current missions at Joint Region Marianas (JRM)-Andersen. Infrastructure requirements associated with the new beddown missions will exceed the existing capacity of the base infrastructure. Using the base infrastructure in its current configuration will impact mission ready status for the new mission facilities. This will require workarounds to provide infrastructure support for the current and new mission facilities. Overloaded electrical circuits and low voltage problems will continue to cause power outages to facilities and compromise essential mission functions. Pump Stations 24101 and 1098 will not have the capacity to provide adequate pumping due to the additional wastewater volumes associated with the beddown of new Missions. A Supervisory Control and Data Acquisition (SCADA) system for monitoring and controlling operations for the wastewater lift stations and other utilities does not exist on base.

IMPACT IF NOT PROVIDED: Without this project, Andersen will be unable to provide South Ramp Utility capabilities to support a Continuous Bomber Presence (CBP), Tanker Task Force (TTF), Theater Security Packages (TSP), and the Global Hawk beddown. Lack of these utilities would significantly impact readiness and proficiency, and could result in significant degradation of operational capability, and may increase the potential for a serious mishap.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements: new construction. Therefore, no economic analysis was needed and a certificate of exception was approved. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (671) 366-7101. South Ramp Utilities Phase 2 total scope: 4,200 LM = 13,780 LF. Sewer: 3,200 M = 10,499 LF; Electrical: 1000 M = 3,281 LF JOINT USE CERTIFICATION: This is a joint use installation utility/infrastructure project where Navy is the supporting component. This project is fully funded by the Air Force. The Navy and all tenants on this installation are, however, benefited by this project.

1. COMPONENT		FY 2016 MILITARY CO	ONSTRUC	TION PROJECT	DATA	2. DATE
AIR FORCE		(compute	er gene	rated)		
3. INSTALLATI	ON AND L	OCATION		4. PROJECT 1	TITLE	
JRM - ANDERSE ANDERSEN AF B GUAM	N ASE SITE	8 # 1		APR SOUTH RA	MP UTILITIES	PHASE 2
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)
27576		832-266	1366/	AJJY143030	7,3	100
12. SUPPLEMEN	TAL DATA	A:				
a. Estimate	ed Design	n Data:				
(1) Statu	.s:	a				
(a) Da	te Desig	yn Started Gogt Estimatos uss	d = a d	wolon gogta	21	-MAY-14
	rametric	c Cost Estimates use	a to ae	evelop costs		YES 1 E %
* (C) Pe		Dagigned	2015		27	136 - 220 - 15
~ (d) Da	te Desi	m Complete			27	-FED-15
(e) Da (f) Er	erav Sti	dv/Life-Cycle analy	sis was	s/will be per	formed	YES
(2) 21			515 Hu.	5, WIII 20 POI	2011104	120
(2) Basis	:					
(a) St	andard o	or Definitive Design	L —			NO
(b) Wh	ere Desi	ign Was Most Recentl	y Used	-		
(3) Total	Cost ((a) = (a) + (b) or (d)) + (a)			(\$000)
(3) Pr	oduction	n of Plans and Speci	ficatio	, . ans		(0000)
(b) Al	l Other	Design Costs				284
(c) To	tal	-				284
(d) Co	ntract					0
(e) In	-house					284
(4) Const	ruction	Contract Award				16 FEB
(5) Const	ruction	Start				16 MAR
(6) Const	ruction	Completion				17 SEP
* Indicat which i cost an	es compl s compan d execut	letion of Project De rable to traditional rability.	finitic 35% de	on with Param esign to ensu	etric Cost Es re valid scop	timate e,
b. Equipmer N/A	nt associ	iated with this proj	ect pro	ovided from o	ther appropri	ations:

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE	
AIR FORCE		(c	omputer ger	erate	d)			
3. INSTALLATION	, SITE	E AND LOCATION		4. PF	ROJECT TITLE	3		
JRM - ANDERSEN				PRTC ROADS				
NORTHWEST GUAM	AIR FC	DRCE BASE SITE # 1						
5. PROGRAM ELEM	ENT	6 CATEGORY CODE	7. RPSUTD/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27576		851-147	3085,	/SAKW1	43046		2,500	
		9. C	OST ESTIM	ATES	1			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)	
PRIMARY FACILIT	z						1,475	
CONSTRUCT PRTC	ROADS			SM	29,619	49	(1,446)	
SUSTAINABLITY	AND EN	ERGY MEASURES		LS			(29)	
SUPPORTING FACIN	LITIES						684	
STORM DRAINAGE				LS			(183)	
CULVERTS				LS			(356)	
SITE IMPROVEME	NTS			LS			(81)	
ENVIRONMENTAL	REMEDI	ATION		LS			(42)	
ARCHEOLOGICAL	MONITO	RING		LS			(21)	
SUBTOTAL							2,159	
CONTINGENCY	(5.0%))					108	
TOTAL CONTRACT (COST						2,267	
SUPERVISION, IN:	SPECTI	ON AND OVERHEAD	(6.2%)				141	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				86	
TOTAL REQUEST							2,494	
TOTAL REQUEST (1	ROUNDE	D)					2,500	
10. Descripti	on of	Proposed Construct	ction: Co	nstru desia	ict roads f	for the PAC	AF Regional	
accommodate th	e mis	sion, which should	d be compa	tible	with appl	licable DoD	, Air Force,	
and base desig	n sta	ndards. In additio	on, local	mater	ials and o	construction	n techniques	
shall be used	where	e cost effective.	This proj	ect w	vill includ	le the fina	l grading of	
the roads, dra	inage	e swales, and road	system as	phalt	: placement	. Facilitie	es will be	
Criteria (UFC)	1-20	00-01. This projection	ct will co	mply	with DoD a	antiterrori:	sm/force	
protection rec	uirem	ents per UFC 4-10	1-01.					
Air Conditioni	ng:	0 Tons						
11. Requirement	it: 29	619 SM Adequate	e: 0 SM	Subs	standard: 2	29619 SM		
PROJECT: Cons	truct	PRTC roads. (New	w Mission)					
REQUIREMENT:	Adequ	ate road pavements	s, storm w	ater	management	measures,	and	
sediment contr	ol pr	actices are require at the PPTC site a	red to sup	port et Fi	over 40 ez	cisting and	future	
PRTC area incr	eases	the demand for f:	inal gradi	ng of	i roads, dr	ainage swal	les, road	
system asphalt	plac	ement, and storm of	drainage c	ulver	ts beyond	their curre	ent	
capacity.								
CURRENT SITUAT	ION:	PRTC includes the	e ongoing	beddo	wn of the	Rapid Engin	heer	
Deployable Hea	vy Op	perational Repair &	Squadron E i Silver F	ngine lac	er (RED HO	DRSE), Comba	at I	
Operational Ca	., com pabil	ity, RED HORSE est	tablished	a rou	igh graded	primary roa	- adway	
	-							

DD FORM 1391, DEC 99 Previous editions are obsolete.

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1. COMPONENT AIR FORCE		FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)							
3. INSTALLATION, JRM - ANDERSEN NORTHWEST GUAM 2 GUAM	INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE 4 - ANDERSEN ATHWEST GUAM AIR FORCE BASE SITE # 1 AM								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER 8. PROJ			OST (\$000)			
27576		851-147	3085/SAKW143046 2,500						
					_				

network. This network does not include final grading, paving, or storm drainage required to meet Final Operational Capability. Individual facilities and training areas are already under construction and will require proper engineering to ensure connectivity to the primary road network. Vehicles are forced to negotiate rutted unpaved tracks to reach facilities, including emergency response vehicles, which significantly impact response times

<u>IMPACT IF NOT PROVIDED</u>: Unpaved roads quickly become rutted and filled with potholes, frequent rains on Guam compound this. These roads require almost continuous repairs and significantly increase maintenance on assigned vehicles. These roads directly support deployment activities for RED HORSE and Combat Communications Squadrons, unpaved roads increase deployment preparation time because of increased travel time and vehicle cleaning times prior to shipment. Current state of roads also increase response times for emergency vehicles because significantly reduced speeds are required to navigate the roads, putting personnel and facilities at greater risk.

ADDITIONAL: This project meets the criteria/scope specified in AFMAN 32-1084, "Facility Requirements" and UFCs 3-250-01FA and 3-250-18FA. A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option (new construction) will meet mission needs; therefore, a complete economic analysis was not performed and a certificate of exception was prepared. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (671) 366-7101. Roads 29,619 SM = 318,816 SF or 35,424 SY.

JOINT USE CERTIFICATION: This is an AF MILCON installation utility/infrastructure project on a joint base, whose real property belongs to the US Navy. All tenants or visitors who use the roads on this installation are benefited by this project.

1. COMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 2. DATE 3. INSTALLATION AND LOCATION 4. PROJECT TITLE FRICE ROADS NORTHWEST GUAM AIR FORCE BASE SITE # 1 PRICE ROADS FRICE ROADS 0000 2756 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 2757 851-147 3085/SARM13046 2,500 12. SUPPLEMENTAL DATA: a. Estimated Design Data: 10 1. Project to be accomplished by design-build procedures 100 (1) Project mode Design Costs 100 100 100 100 (2) Construction Contract Award 16 FEB 100 16 VEB (5) Construction Completion 17 MAR 17 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: N/A N/A											
AIR FORCE (computer generated) 3. INSTALLATION AND LOCATION SMC - ANDERSEN NORTHWEST GUAM AIR FORCE BASE SITE # 1 4. PROJECT TITLE PRICE ROADS 2000 5. FROGRAM ELEMENT 27576 6. CATEGORY CODE SSI-147 7. PROJECT NUMBER 3085/SAKW143046 8. PROJECT COST (\$000) 27576 SSI-147 3085/SAKW143046 2,500 12. SUPPLEMENTAL DATA: . . . a. Satimated 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 - (1) All Other Design Costs 100 (4) Construction Contract Award 16 FEB (5) Construction Completion 17 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: N/A	1. COMPONENT		FY 2016 MILITARY C	ONSTR	JCTION PROJECT	DATA	2. DATE				
3. INSTALLATION AND LOCATION JRM - ANDERESM NORTHNEET GUAM AIR FORCE BASE SITE # 1 4. PROJECT TITLE PRIC ROADS 5. PROGRAM ELEMENT 27576 6. CATEGORY CODE 851-147 7. PROJECT NUMBER 3085/SAKW143046 8. PROJECT COST (\$000) 2,7576 12. SUPPLEMENTAL DATA: a. Estimated Design Data: 1. (1) Project to be accomplished by design-build procedures NO (2) Basis: (a) Standard or Definitive Design - (b) Where Design Was Most Recently Used - (3) All Other Design Costs 100 (4) Construction Contract Award 16 FEB (5) Construction Completion 17 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: N/A	AIR FORCE		(compute	er ge	nerated)						
JPN - ANDERSEN PRTC ROADS NORTHWEST GUAM AIR FORCE BASE SITE # 1 PRTC ROADS 5. FROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 27576 851-147 3085/SAKN143046 2,500 12. SUPPLEMENTAL DATA: a. Estimated Design Data: 1 1 (1) Project to be accomplished by design-build procedures 1 8. PROJECT COST (\$000) (2) Standard or Definitive Design - NO NO (b) Where Design Was MOST Recently Used - 100 100 (4) Construction Contract Award 16 FEB 100 (5) Construction Completion 17 MAR 17 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: N/A	3. INSTALLATI	ON AND I	LOCATION		4. PROJECT TI	TLE					
NORTHWEST GUAM AIR FORCE BASE SITE # 1 GUAM 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 27576 851-147 3085/SAKW143046 2,500 12. SUPPLEMENTAL DATA: .	JRM - ANDERSE	N			PRTC ROADS						
GUAM 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 27576 851-147 3085/SARW143046 2,500 12. SUPPLEMENTAL DATA: . . . a. Estimated Design Data:	NORTHWEST GUA	M AIR FO	DRCE BASE SITE # 1								
5. FROGRAM ELEMENT 6. CATEGORY CODE 7. FROJECT NUMBER 8. PROJECT COST (\$000) 27576 851-147 3085/SAKW143046 2,500 12. SUPPLEMENTAL DATA: . . . a. Estimated Design Data:	GUAM										
27576 851-147 3085/SAKW143046 2,500 12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Project to be accomplished by design-build procedures (2) Basis: (a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used - (3) All Other Design Costs 100 (4) Construction Contract Award 16 FEB (5) Construction Completion 17 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: N/A	5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CO)ST (\$000)				
12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Project to be accomplished by design-build procedures (2) Basis: (a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used - (3) All Other Design Costs 100 (4) Construction Contract Award 16 FEB (5) Construction Start (6) Construction Completion (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: N/A 	27576		851-147	308	5/SAKW143046	2,	500				
 a. Estimated Design Data: (1) Project to be accomplished by design-build procedures (2) Basis: (a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used - (3) All Other Design Costs 100 (4) Construction Contract Award 16 FEB (5) Construction Start (6) Construction Completion (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: N/A 	12. SUPPLEMEN	TAL DAT	A:								
 (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 (10) (4) Construction Contract Award (5) Construction Start (6) Construction Completion (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: N/A 	a. Estimate	d Design	n Data:								
 (2) Basis: (a) Standard or Definitive Design - (b) Where Design Was Most Recently Used - (3) All Other Design Costs (0) (4) Construction Contract Award (6 FEB (5) Construction Start (6) Construction Completion (7) Energy Study/Life-Cycle analysis was/will be performed (7) Energy Study/Life-Cycle analysis was/will be performed (8) Equipment associated with this project provided from other appropriations: N/A 	(1) Proje	ct to be	accomplished by de	sign-	build procedur	es					
(a) Standard or Definitive Design - NO (b) Where Design Was Most Recently Used - 100 (3) All Other Design Costs 100 (4) Construction Contract Award 16 FEB (5) Construction Start 16 MAR (6) Construction Completion 17 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: N/A	(2) Basis:										
 (b) Where Design Was Most Recently Used - (3) All Other Design Costs 100 (4) Construction Contract Award 16 FEB (5) Construction Start 16 MAR (6) Construction Completion 17 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: N/A 	(a) St	andard	or Definitive Design	1 -			NO				
 (3) All Other Design Costs (4) Construction Contract Award (5) Construction Start (6) Construction Completion (7) Energy Study/Life-Cycle analysis was/will be performed (7) Energy Study/Life-Cycle analysis was/will be performed (8) Equipment associated with this project provided from other appropriations: N/A 	(b) Wh	ere Des	ign Was Most Recent	ly Use	ed -						
 (4) Construction Contract Award 16 FEB (5) Construction Start 16 MAR (6) Construction Completion 17 MAR (7) Energy Study/Life-Cycle analysis was/will be performed VES b. Equipment associated with this project provided from other appropriations: N/A 	(3) All O	ther Des	sign Costs				100				
<pre>(5) Construction Start 16 MAR (6) Construction Completion 17 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: N/A</pre>	(4) Const	ruction	Contract Award				16 FEB				
 (6) Construction Completion 17 MAR (7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: N/A 	(5) Const	ruction	Start				16 MAR				
(7) Energy Study/Life-Cycle analysis was/will be performed YES b. Equipment associated with this project provided from other appropriations: N/A	(6) Const	ruction	Completion				17 MAR				
b. Equipment associated with this project provided from other appropriations: N/A	(7) Energ	y Study/	Life-Cycle analysis	was/	will be perfor	med	YES				
	N/A										

1. COMPONENT AIR FORCE		F	Y 2016 M	IILITARY	CONSTR	UCTION F	PROGRA	Μ	2. DATE	
INSTALLATION AND YOKOTA AIR BASE JAPAN	D LOCATI	ON		COMMAN PACIFIC	ND: AIR FOR	CES	5. AREA COST IN 1.77	CONST		
6. Personnel	PEF	RMANENT		STU	DENTS		SUI	PPORTED)	
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	1141	317	270							1,728
										0
 a. Total Acreage: 1,750 b. Inventory Total as of : (30 Sep 14) c. Authorization Not Yet in Inventory: d. Authorization Requested in this Program: (FY2016) e. Planned in Next Four Year Program: f. Remaining Deficiency: g. Grand Total: 										1,699,970 0 8,461 34,914 <u>775,459</u> 2,518,804
8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016) CATEGORY CODE COST DESIGN S CODE PROJECT TITLE SCOPE \$,000 START (171-212 C-130J Flight Simulator Facility 1,116 SM 8,461 May-14 TOTAL 8,461								STATUS <u>CMPL</u> Sep-15		
9a. FUTURE PROJE	ECTS: Typ	pical Plan	ned Next	Four Year	'S:					
171-475 211-159	CATM Fa C-130J C	cility orrosion (Control Ha	angar		1,913 4,226 TOTAL	SM SM	10,924 23,990 34,914		
9b. Real Property M	laintenanc	e Backlog	This Inst	allation: (S	\$M)					246
10. Mission or Major Functions: C-130J Aircrafts are projected to arrive in Yokota Air Base (AB), Japan in 2017 under a new mission. Air Mobility Command (AMC) plans to establish a regional C-130J flight simulator training program for pilots and crew members and Yokota Air Base has been selected as the AMC's Eastern Region Training Facility.										
11. Outstanding poll a. Air pollution	lution and	Safety (O	SHA Defi	ciencies):				0		
b. Water Pollutio	on							0		
c. Occupational	Safety and	d Health						0		
d. Other Enviror	nmental							0		

DD Form 1390, 24 Jul 00

1. COMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE									
AIR FORCE			(computer gen	erate	d)				
3. INSTALLATION	, SIT	E AND LOCATION		4. PF	ROJECT TITL	Ξ			
YOKOTA AIR BASE				C-130	J FLIGHT SI	IMULATOR FACIL	ITY		
YOKOTA AB SITE	# 1								
JAPAN		1							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT C	OST (\$000)		
41132		171-212	3541/2	ZNRE14	3000	8	,461		
		9.	COST ESTIMA	TES					
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)		
PRIMARY FACILITY	Z						5,468		
C-130J FLIGHT	SIMULA	ATOR		SM	1,116	4,803	(5,361)		
SUSTAINABILITY	AND E	ENERGY MEASURES		LS			(107)		
SUPPORTING FACII	LITIES	l					2,098		
ELECTRICAL				LS			(590)		
COMMUNICATIONS				LS			(95)		
UTILITIES				LS			(500)		
SITE IMPROVEME	NTS			LS			(523)		
PAVEMENTS				LS			(104)		
ENVIRONMENTAL	REMEDI	IATION		LS			(137)		
ACHEOLOGICAL M	ONITOF	RING		LS			(69)		
SITE DEMO				LS			(82)		
SUBTOTAL							7,566		
CONTINGENCY	(5	5.0%)					378		
TOTAL CONTRACT (COST					-	7,944		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				516		
TOTAL REQUEST						-	8,461		
TOTAL REQUEST (F	ROUNDE	:D)					8,461		
EQUIPMENT FROM (THER	APPROPRIATIONS (NO	ON-ADD)				33,600.0		
10. Descripti	on of	Proposed Const:	ruction: Con	nstru	ct a compl	iant C-130J	flight		
simulator faci	lity	utilizing econo	mical design	and	constructi	on methods t	o		
accommodate th	e mis	sion of the fac	ility. The :	Eacil	ity should	l be compatib	le with		
applicable DoD	, Air	Force, and base	e design star	ndard	s. In addi	tion, local	materials		
designed as pe	on te rmane	ent construction	in accordance	e cos ce wi	t effectiv	O Unified Fac	s will de ilities		
Criteria (UFC)	1-20	0-01. This pro	ject will con	nply	with DoD a	ntiterrorism	/force		
protection req	uirem	ments per UFC 4-3	101-01.						
Air Conditioni	ng:	57 Tons							
11. Requiremen	t: 11	.16 SM Adequa	te: 0 SM s	Subst	andard: 0	SM			
PROJECT: C-13	0J F]	light Simulator	Facility. (N	ew Mi	ssion)				
REQUIREMENT:	This	project is requ	ired to prov	ide a	compliant	: C-130J Flig	ht		
Simulator faci	lity	to support new m	mission beddo	own a	nd operati	ons of C-130	Js at		
Yokota Air Bas	Yokota Air Base (YAB), Japan. C-130J Aircrafts are projected to arrive at Yokota								
Air Base (YAB)	, Jap т ғі:	oan, in 2017. At	ir Mobility (comma:	nd (AMC) p or pilota	and grow more	blish a		
has been selec	ted a	s AMC's Eastern	Region Trai	ning '	Facility.	and crew men	Ders; IAD		
CURRENT STTUAT	TON	There is no C-	130.T training	r fac	ility our	ently in DAC	'ልፑ		
requiring pers	onnel	to travel to a	CONUS locat:	ion i	n order to	obtain requ	lired		
DD FORM 1391, 1	DEC 9	9 Previ	lous editions	are	obsolete.		Page No.		

 1. COMPONENT
 FY 2016 MILITARY CONSTRUTION PROJECT DATA
 2. DATE

 AIR FORCE
 (computer genrated)
 2. DATE

 3. INSTALLATION, SITE AND LOCATION
 4. PROJECT TITLE
 VOKOTA AIR BASE
 C-130J FLIGHT SIMULATOR FACILITY

 YOKOTA AB SITE # 1
 1
 1
 1
 1

JAPAN			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
41132	171-212	3541/ZNRE143000	8,461

certifications on a C-130J Flight Simulator. Capacity of existing facilities limits the number of certified pilots and qualified aircrews.

IMPACT IF NOT PROVIDED: If this project is not provided, the C-130J Weapon System Trainer will have no facility to be installed in, therefore delaying its operational kick-off and subsequently increasing training costs and reducing the effectiveness of the airlift mission. Without the facility, personnel will be required to continuing traveling to CONUS to execute mandatory flight simulator certification on a space-available basis. Capacity of these facilities will limit the number of certified C-130J pilots and qualified aircrews thus impacting bed down of C-130J aircraft in the Pacific. Opportunities to effectively establish lowcost, high-impact mission training will be delayed or lost entirely due to lack of facility support. Without the Flight Simulator facility, personnel not current with simulator training before their arrival to YAB will sacrifice a significant amount of actual flight-time to execute training stateside, further decreasing productivity and impacting the airlift mission.

ADDITIONAL: This project is not eligible for Host Nation funding. This project meets the criteria/scope specified in AFM 32-1084, 'Facility Requirements', AFOSH Standard 127-118, 'Occupational Safety Training System Fire Protection' and ETL 93-5 'Fire Protection Engineering Criteria, Electronic Equipment Installations'. A preliminary analysis evaluating options for accomplishing the subject project determined that there is only one reasonable method to meet operational requirements: new construction. Therefore, a full economic analysis was not performed and a certificate of exception has been approved. This facility will house a flight simulator supplied by AMC in 2016. The project complies with the criteria/scope as specified in AMC A3TR Simulator Training Facility Requirements Document. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (011) 81-3117-55-7215. C-130J Flight Simulator Training: 1,116 SM = 12,013 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: YEN 103.9439

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 2016 MILITARY	CONSTRUC	TION PROJECT	DATA	2. DATE	
AIR FORCE		(compu	ter gene	rated)			
3. INSTALLATI	ON AND L	OCATION		4. PROJECT	TITLE		
YOKOTA AIR BA YOKOTA AB SIT JAPAN	SE E # 1			C-130J FLIG	HT SIMULATOR F	ACILITY	
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)	
41132		171-212	3541/	ZNRE143000	8,	461	
12. SUPPLEMEN	TAL DATA	\:					
a. Estimate	d Design	Data:					
(1) Statu	.s:	_					
(a) Da	te Desig	n Started		-	21	-MAY-14	
(b) Pa	rametric	Cost Estimates us	sed to de	evelop costs		YES	
* (C) Pe	rcent Co	mplete as of UL JA	N 2015		0.7	15%	
* (d) Da	te 35% I	vesigned			27	-FEB-15	
(e) Da	eray Sti	dy/Life_Cycle anal	veie wa	z/will be per	su stormed	-SEP-14 VFC	
	leigy bet	dy/hite-cycie anal	.ybib wa	s/will be per	Tormed	125	
(2) Basis	:						
(a) St (b) Wh	andard d lere Desi	gn Was Most Recent	n - ly Used	-		NO	
(3) Total	Cost (c	e) = (a) + (b) or (d) + (e):		(\$000)	
(a) Pr	oduction	of Plans and Spec	ificatio	ons		508	
(b) Al	1 Other	Design Costs				254	
(c) Tc	tal					762	
(d) Co	ntract					635	
(e) In	-house					127	
(4) Const	ruction	Contract Award				16 FEB	
(5) Const	ruction	Start				16 MAR	
(6) Const	ruction	Completion				17 DEC	
* Indicat which i cost an	es compl s compar d execut	etion of Project I able to traditiona ability.	efinitio 1 35% de	on with Param esign to ensu	metric Cost Es are valid scop	timate e,	
b. Equipmen	it associ	ated with this pro	ject pro	ovided from c	other appropri	ations:	
EQUIPMEN	I NOMENC	LATURE AF	PROCURIN PROPRIA:	FISC G APPRC TION OR RE	AL YEAR DPRIATED QUESTED	COST (\$000)	
SIMULATO	R EQUIPM	ENT	3010	2	2015	33,100	
COMM EQU	COMM EQUIPMENT 3080 2016						
FURNITUR	Ξ		3400	2	2017	100	

1. COMPONENT AIR FORCE	Y 2016 N	IILITARY	CONSTR	М	2. DATE					
3. INSTALLATION A	AND LOC	ATION		4. COMM	/IAND:		5. AREA CONST			
AGADEZ				UNITED	STATES /	AIR FORC	COST IN	DEX		
NIGER				IN EUROPE						
6. Personnel	PEF	RMANEN	Γ	STU	DENTS	-	SUF	PPORTED)	
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14										
END FY 2019										
 7. INVENTORY DA⁻ a. Total Acreage: b. Inventory Total as c. Authorization Not d. Authorization Rec c. Planned in Next F 	TA (\$000) s of : (30 ; Yet in Inv quested in	Sep 14) entory: this Prog	ram: (FY2	2016)						0 50,000
f. Planned in Next F		Program.								0
a Grand Total:	ncy.									50,000
y. Granu rolai.										30,000
8. PROJECTS REQ CATEGORY <u>CODE</u> 111-111	PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016) TEGORY COST DESIGN DE PROJECT TITLE SCOPE \$,000 START I-111 Construct Airfield and Base Camp - Agadez 102,772 SM 50,000 Troop Labor TOTAL 50,000 TOTAL 50,000 TOTAL								STATUS <u>CMPL</u> por	
9a. Future Projects:	Typical F	Planned ir	Next Fou	ur Years:						
	NONE					TOTAL		0		
9b. Real Property M	laintenanc	e Backlog	g This Ins	tallation: (S	\$M)					48
10. Mission or Major beddown of aircraft t Government of Niger infrastructure adjace	r Function o support r to allow f nt to the N	s: USAFF operation for the con liger Arm	RICOM hat s in westenstruction ed Force's	s directed ern Africa. of a new i s Base Ae	AFAFRIC USAFRIC unway ar rienne 20	CA to provi COM has r nd all asso 1 (Airbase	ide airfield negotiated ciated pa 201) sou	d infrastrue d an agree vements, ith of the c	cture to er ment with facilities a city of Aga	nable the nd dez.
11. Outstanding poll a. Air pollution	lution and	Safety (C	SHA) De	ficiencies:		·	,	0		
b. Water Pollutic	b. Water Pollution 0									
c. Occupational Safety and Health 0										
d. Other Environ	nmental							0		

DD Form 1390, 24 Jul 00

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	JCTION	PROJECT DAT	ſA	2. DATE		
AIR FORCE		(computer generated)							
3. INSTALLATION	, SITE	AND LOCATION	4. PROJECT TITLE						
AGADEZ, NIGER				CONST	TRUCT AIRFIE	LD AND BASE	CAMP		
	FN T	C CATEGODY CODE				8 80.7507	COST (\$000)		
		0. CATEGORI CODE	/ . RIDOID/	IROUH	CI NORDER	0. 1800101			
27576		111-111	/A	FAF140	0005		50,000		
		9. C	OST ESTIM	ATES	1 1				
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)		
							(+++++++++++++++++++++++++++++++++		
PRIMARY FACILIT	IES						19,580		
RUNWAY AND TUR	NAROUN	DS (111-111)		SM	68,240	178	(12,147)		
ISR AIRCRAFT A	PRON &	TAXIWAY (112-211, 1	13-321)	SM	17,458	138	(2,409)		
RELOCATABLE AI	RCRAFT	SHELTER (141-181)		EA	3	750,000	(2,250)		
MOBILITY APRON	AND T	AXIWAY (112-211, 113	3-321)	SM	17,074	142	(2,425)		
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(350)		
SUPPORTING FACI	LITIES						28,061		
LIFE SUPPORT A	REA (7	21-312)		SM	57,000	7	(399)		
OPERATIONS & L	OGISTI	CS AREA (124-134, 14	1-753)	SM	140,000	14	(1,960)		
BASE ROADS (85	1-147)			LM	17,374	25	(434)		
BASE PERIMETER	FENCE	(872-245)		LM	14,000	436	(6,104)		
SECURITY GUARD	TOWER	PADS (872-845)		EA	8	7	(0)		
BASE UTILITIES	(842-	245)		LM	4,050	50	(203)		
HESCO BARRIER	SITE P	REP (872-247)		т.м	3,050	110	(336)		
AIRFIELD PAVEM	ENT MA	RKINGS (111-111)		SM	5,000		(90)		
TROOP LABOR CO	STS -	TRAVEL		LS			(780)		
TROOP LABOR CO	STS -	PER DIEM		LS			(123)		
TRANSPORTATION	 VTA A	 TRI.TFT		LS			(15,100)		
HEAVY FOUTP FU	EL/OPE	RATING COSTS		LS			(2,532)		
	, •								
SUBTOTAL							47,641		
CONTINGENCY	(5.0%))					2,382		
TOTAL CONTRACT (COST						50,023		
TOTAL REQUEST							50,023		
TOTAL REQUEST (1	ROUNDE	D)					50,000		
EQUIPMENT FROM (OTHER .	APPROPRIATIONS (NON-	ADD)				14,680		
10. Descripti	on of	Proposed Construc	ction: Us	ing t	roop labor	, construc	t 68,240 SM		
(1,830 LM) pav	red as	phalt runway and t	urnaround	s car	able of su	pporting C	-17 and		
miscellaneous	light	and medium load a	aircraft.	Const	ruct an as	phalt mobi	lity apron		
and taxiway to	acco	mmodate one C-17.	Construc	t app	proximately	17,458 SM	asphalt		
parking apron	and t	axiway for light]	load ISR a	ircra	aft. Const	ruct appro	ximately		
17,074 SM asph	ait p	parking apron and t	caxiway fo	r med	uma load a	arcraft.	NORK WILL		
1401 re-logato	ut ma ble f	abric tension size	raft bara	Proc	Complete	site prepa	=, 140° X		
required life	SUDDO	rt, operations and	l logistic	s are	as and ass	ociated el	ectrical and		
water distribu	tion	infrastructure. (Construct	base	force prot	ection inf	rastructure		
to include, bu	it not	limited to, perin	neter fend	e and	l roads, HE	SCO barrie	rs and Entry		

DD FORM 1391, DEC 99

Previous editions are obsolete.

Control Point. War Reserve Material (WRM)-type equipment will be setup to provide facility and infrastructure requirements. Runway, taxiways and aprons shall be

1. COMPONENT		FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE		(c	omputer gen	nerated)						
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE						
AGADEZ, NIGER				CONSTRUCT AIRFIE	LD AND BASE CA	MP				
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	JST (\$000)				
27576		111-111	/A	FAF140005	50	,000				
built in accor	dance	with ETL 9-01, A	irfield Pl	anning and Desi	gn Criteria	for				
Unmanned Aircr	aft S	ystems, for MQ-1/M	MQ-9 aircr	aft, ETL 97-9,	criteria and	Guidance				
for C-17 Conti	ngenc	y and training Ope	erations o	n Semi-Prepared	Airfields a	nd UFC 3-				
260-02, Paveme	ent De	sign for Airfields	3. Facili Jango with	ties will be de	signed/const:	ructed as				
(UEC) 1-200-01	. cons Cen	eral Building Reg	iance with	and HEC 1-200-0	2 High Perf	ormance				
and Sustainabl	e Bui	ldings Requirement	ts, as apr	olicable. This p	project will	comply				
with DoD antit	error	ism/force protect:	ion requir	ements per UFC	4-010-01. T	his work				
will be comple	ted b	y military troop 3	labor.	-						
11. Requiremen	t: 10	2772 SM Adequat	te: 0 SM	Substandard:	0 SM					
PROJECT: Cons	truct	Airfield and Base	e Camp (Ne	w Mission)						
REOUIREMENT:	USAFR	ICOM has directed	AFAFRICA	to provide airf	ield infrast	ructure to				
enable beddown	ofa	ircraft to support	c operatic	ons in western A	frica. USAFR	ICOM has				
negotiated an	agree	ment with the Gove	ernment of	Niger to allow	for the con	struction				
of a new runwa	y and	all associated pa	avements,	facilities and	infrastructu	re				
adjacent to th	le Nig	er Armed Force's H	Base Aerie	nne 201 (Airbas	e 201) south	of the				
city of Agadez	i.									
CURRENT SITUAT	ION:	Portions of Airba	ase 201 ar	e available to	U.S. forces	for				
establishment	of bi	lleting and work a	space. Ai	rbase 201 curre	ntly is supp	lied with				
water from the	e city	of Agadez, but no) electric	al or sewer inf	rastructure	exists.				
The Host Natio	n agr	eement allows U.S.	. forces t	o utilize Manu	Dayak Intern	ational				
the new runway	ximat	ely 2 km to the no	orth of Al	rbase 201) for	cargo aircra	ct until				
base.	IS C	ompreted. There	LS CUITEIIC	iy no suscarned	U.S. present	se at the				
IMPACT IF NOT	PROVT	DED: Without the	completic	on of this proje	CT. AFAFRICA	's ability				
to support CDR	USAFR	ICOM's strategic a	and operat	ional objective	s in western	Africa				
will be severe	ly li	mited. USAFRICOM	will be i	n jeopardy of 1	osing aircra	ft and				
associated inf	rastr	ucture currently a	allotted t	o it through th	e GFMAP.					
ADDITIONAL: A	n Ecc	onomic Analysis (E)	A) was not	performed beca	use there is	only one				
method possibl	e to	accomplish the obj	jective (I	AW AFI 65-501,	1.2.2.2). A	n EA				
Waiver has bee	n pre	pared. Supporting	y facility	r cost exceeds 2	5% of the pr	imary				
facilities bec	ause	this project will	be execut	ed with troop 1	abor therefor	re troop				
labor travel a	nd pe	r diem and materia	al and equ	lipment transpor	tation costs	are				
included in su	pport	ing facilities.								
JOINT USE CERT	JOINT USE CERTIFICATION: These facilities can be used by other components on an 'as									
available' bas	sis; h	owever, the scope	of the pr	oject is based	on Air Force					
requirements.	Elen	ents of this program	ram are no	t currently ell	gible for NA	ro				
security inves	cment	FIOGIAM (NSIP) IL	marng.							

1						0 0
ATR FORCE		FY 2016 MILITARY C	ONSTR er ge	UCTION PROJECT	DATA	2. DATE
3 TNSTALLATT			<u> </u>			
AGADEZ NICER		ICATION		CONSTRUCT ATE	TTEL AND BAG	F CAMP
AGADEZ, NIGER	•			CONSTRUCT AIF	FIELD AND BASI	L CAMP
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. P	ROJECT NUMBER	8. PROJECT CO	OST (\$000)
27576		111-111	/	AFAF140005	50,	,000
12. SUPPLEMEN	ITAL 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) Wi	andard	or Definitive Desig	n - lv Use	- he		NO
(3) All 0	ther Des	ign Costs				0
(4) Const	ruction	Contract Award				15 OCT
(5) Const	ruction	Start				15 OCT
(6) Const	ruction	Completion				16 OCT
(7) Energ	v Study/	Tife-Cycle analysis		will be perfor	med	NO
(7) Ellerg	y Scuuy/	hite-cycle analysis	s was/	WIII DE PEIIOI	mea	NO
b. Equipmer	nt assoc:	iated with this pro	ject p CURING	FISC	other appropri AL YEAR DPRIATED	ations: COST
EQUIPMENT	NOMENC:	LATURE		OR RI	EQUESTED	(\$000)
WRM			308	0	16	8,543
HESCO BAI	RRIERS		308	0	16	744
TENT FLOO	ORING		308	0	16	585
SOLAR AII	RFIELD L	IGHTING	308	0	16	250
PORTABLE	GUARD B	ООТН	340	0	16	168
GUARD TO	WER		308	0	16	936
TROOP LAI	BOR		350	0	16	3,454

1. COMPONENT AIR FORCE		FY 2016 N	IILITARY C	ONSTR	UCTION F	PROGRA	М	2. DATE	
3. INSTALLATION A	AND LOC	ATION:	4. COMMA	AND:			5. AREA	CONST	
AL MUSANAH AIR E	BASE		AIR COMB	AT CO	MMAND		COST IN	DEX	
OMAN			(AFCENT)				1.2		
6. Personnel	PEF	RMANENT	STUD	ENTS		SUF	PPORTED)	
Strength	OFF	ENL CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	CLASSIF	IED DATA							Note 1
END OF FY 2019	CLASSIF	IED DATA							
7. INVENTORY DA	TA (\$000)								
a. Total Acreage:	Note 2								
b. Inventory Total as	s of : (30	Sep 14)							Note 2
c. Authorization Not	Yet in Inv	entory:							58,915
d. Authorization Rec	quested in	this Program: (FY2	2016)						25,000
 e. Planned in Next F 	our Year	Program:							0
f. Remaining Deficie	ency:								TBD
g. Grand Total:									83,915
8. PROJECTS REQ	UESTED	IN THIS PROGRA	M:		(FY 2016	5)			
CATEGORY							COST	DESIGN	STATUS
<u>CODE</u>	PROJEC	<u>T TITLE</u>			<u>SCOPE</u>		<u>\$,000</u>	<u>START</u>	CMPL
113-321	Airlift Apr	on			189,000	SM	25,000	May-14	Sep-15
					TOTAL		25,000		
9a. Future Projects:	Typical F	Planned Next Four `	Years:						
								-	
	NONE				IOTAL		0		
Oh Deel Drenerts M		- Dealdea This last	hallations (MN	4)					N1/A
90. Real Property IV		e Backlog This Inst	tallation: (\$N	VI)					N/A
10. Mission or Majo	r Function	s: Al Musanan nas	been desig	nated a	s a key sti	rategic loo	cation for I	ruture Unit	ed States
development. Curre	nt require	ment is to provide s	support for s	strategic	and tactic	al alfilitt to	o the regio	n.	
					4		با م ما		
NOTE 1: Personner	numpers	at a contingency to	cation are c	lassilied	i, inereiore	e not prov	deu.	, data	
NUTE 2: NOL a US C	owned ins		presence; t	nereiore	e we do no	ot nave re	ai propert	y dala.	
11. Outstanding Pol	iution and	Safety (USHA Der	iciencies):				0		
a. All Pollution							0		
h Water Dellutio							0		
b. water Pollutic	11						0		
a Occupational	Safatican	d Uaalth					0		
c. Occupational	Salety an						0		
d Other Environ	montal						0		
	mental								

DD Form 1390, 9 Jul 02

1. COMPONENT		FY 2016 MILI	TARY CONSTRU	CTION	PROJECT DA	TA	2. DATE			
AIR FORCE		(computer generated)								
3. INSTALLATION	, SITI	E AND LOCATION		4. PR	OJECT TITL	E				
AL MUSANAH AB				AIRLI	FT APRON					
OMAN										
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PP	ROJECT	NUMBER	8. PROJECT (COST (\$000)			
27576		113-321	/ AM2	AB1200	01	2	5,000			
		9.	COST ESTIMA	TES						
				TT /M	OUANTTEX	UNIT	COST			
		11EM		0/M	QUANTITI		(\$000)			
PRIMARY FACILIT	ES						19,965			
AIRFIELD PAVEM	ENTS (113-321)		SM	189,000	92	(17,388)			
REFUELING HYDR	ANTS (121-122)		EA	4	644,250	(2,577)			
SUPPORTING FACII	LITIES						2,139			
UTILITIES				LS			(151)			
SITE IMPROVEME	NTS			LS			(182)			
AIRCRAFT TIE D	OWNS			LS			(295)			
COMMUNICATIONS				LS			(36)			
AIRFIELD LIGHT	ING			LS			(927)			
FUEL FILL STAN	DS			EA	2	274,000	(548)			
SUBTOTAL							22,104			
CONTINGENCY	(5	.0%)					1,105			
TOTAL CONTRACT O	COST					-	23,209			
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				1,509			
TOTAL REQUEST						-	24,718			
TOTAL REQUEST (F	ROUNDE	D)					25,000			
10. Descripti	on of	Proposed Constru	action: Ind	lude	s all civi	l, electrica	l, and			
site work to c	onstr	uct a medium load	l aircraft p	arki	ng apron w	vith paved sl	oulders,			
edge and area	light	ing, signage, pav	vement marki	ings v	with aircr	aft tie down	ns,			
grounding poin	ts, a	nd fire hydrants.	Construct		Type III	hydrant refu	eling			
system with R-	IZ CC rmane	mpatible hydrant	points, and	1 III. Towit	I Stands. th the Dol	Ine project	: WIII De			
Criteria (UFC)	1-20	0-01. This proje	ect will con	nply v	with CENTO	OM and DoD				
antiterrorism/	force	protection requi	rements per	UFC	4-101-01.					
11. Requiremen	t: 18	9000 SM Adequa	te: SM	Subs	tandard:	SM				
PROJECT: Airl	ift A	pron (New Mission	ı)							
REQUIREMENT:	A req	uirement exists t	construct	an a	airlift ap	oron with acc	ess			
taxiways; DOD	Type	III hydrant refue	eling system	a to a	support a	combination	of			
strategic (C-5	wide	body equivalents	s) and tact	ical	(C-130 eq	uivalents) a	ircraft at			
Al Musanah Air	Base	, Oman.								
CURRENT SITUAT	ION:	Al Musanah Air E	Base, Oman	ls a j	premier Ro	yal Air Ford	e of Oman			
(RAFU) Operati	ng ba desia	se. In support of mated Al Musanah	or US long 1 as a key st	range	Dasing st gic locati	on for futur	e region,			
development.	RAFO	has designated th	ne area sout	th of	the runwa	v as the fut	ure			
development ar	ea fo	r both US and UK	forces. Th	ne US	completed	construction	on of a			
38,000 SM airc	raft	apron with fuel s	storage and	disp	ensing fac	ilities alou	ng with a			
3,000 LM exten	sion	to the south para	allel taxiwa	у. :	The airlif	t apron and	fuels			
project will p	rovid	e a Gas-n-Go capa	ability by g	Jivin	g aırcraft	the ability	to land			
DD FORM 1391.	DEC 9	9 Previo	us editions	are	obsolete.		Page No.			

1. COMPONENT		FY 2016 MIL	TA	2. DATE					
AIR FORCE		(computer generated)							
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE									
AL MUSANAH AB									
OMAN									
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID				ROJECT NUMBER	8. PROJECT CO	OST (\$000)			
27576	113-321 /AMAB120001 25,000								

at Al Musanah AB, refuel, and then depart to final destinations that have limited fueling capability. The parallel taxiway extension completes the south parallel taxiway by providing ladder and high speed taxiway access from the east end of the runway. In order for the US to be fully operational, and meet USCENTCOM's transload strategy of providing an enroute location in support of intra and intertheater operations along the southern line of communication in the region, a strategic airlift apron is required to support US contingency operations at the base.

IMPACT IF NOT PROVIDED: U.S. Central Command supports this project on the Master Plan Priority List (MPPL). Al Musanah is a key location that supports USCENTCOM's long range and theater posture plan strategy in the region. The location will eventually support refueling, strategic airlift operations, and logistics mission that will directly support USCENTCOM's current theater posture plan at the base and in the region. Additionally, the project will significantly expand strategic and tactical airlift capabilities in the region and continue to foster a mutually beneficial host nation relationship in the protection of shared national defense interests. If not provided, significant shortfalls in strategic and tactical airlift capability at this location will delay USCENTCOM's long range development plans for the region.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements and Unified Facilities Criteria (UFC 3-260-01) for Airfield and Heliport Planning and Design. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. An economic analysis was not performed for this project. A preliminary analysis of reasonable options for meeting this requirement (status quo, renovation, new construction) was done. It indicates there is only one option that will meet the operational requirements: new construction. Therefore, a certificate of exception has been prepared. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. USAFCENT A7 engineer: (803) 895-8833. Airfield pavements: 189,000 SM = 2,034,000 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		FY 2016 MILITARY CO	ONSTRUC	TION PROJECT	DATA	2. DATE					
AIR FORCE		(Compute	er gene	rated)							
3. INSTALLATI	ON AND I	JOCATION		4. PROJECT 1	TITLE						
AL MUSANAH AB				AIRLIFT APRO	N						
OMAN		1									
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC)ST (\$000)					
27576		113-321	/ AM	AB120001	25,	000					
12. SUPPLEMEN	TAL DATA	A: n Data:									
(1) Statu	ls:										
(a) Da	te Desig	gn Started			01	-JAN-13					
(b) Pa	rametrio	C Cost Estimates use	d to de	evelop costs		YES					
* (c) Pe	ercent Co	omplete as of 01 JAN	1 2015	-		65%					
* (d) Da	te 35% I	- Designed			25	-JUN-14					
(e) Da	te Desid	an Complete			30	-SEP-15					
(f) En	ergy Stu	udy/Life-Cycle analy	sis was	s/will be per	formed	YES					
(2) Basis											
(a) St (b) Wh	andard o here Des:	or Definitive Design ign Was Most Recentl	ı - .y Used	-		NO					
(3) Total	Cost ((a) = (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				16 FEB					
(5) Const	ruction	Start				16 MAR					
(6) Const	ruction	Completion				18 MAR					
* 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 Asign to ensu	etric Cost Es re valid scop	timate e,					
b. Equipmen N/A	nt assoc:	iated with this proj	ect pro	ovided from o	ther appropri	ations:					

1. COMPONENT AIR FORCE		F	Y 2016 M	MILITARY CONSTRUCTION PROGRAM 2. DATE						
3. INSTALLATION A RAF CROUGHTON, UNITED KINGDOM	AND LOC	ATION		4. COMN UNITED 3 IN EURO	/AND: STATES / PE	AIR FORC	ES	5. AREA COST IN 1.27	CONST	
6. Personnel	PEF	RMANENT STUDENTS SUPPORTED								
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	23	338	174	0	0	0	0	4	182	721
END FY 2019	23	338	172	0	0	0	0	4	182	719
 INVENTORY DA⁻ a. Total Acreage: b. Inventory Total as c. Authorization Not d. Authorization Rec e. Planned in Next F f. Remaining Deficie g. Grand Total: 	TA (\$000) 694 s of : (30 \$ Yet in Inv quested in Four Year ency:	Sep 14) entory: this Progr Program:	am: (FY2	2016)						583,734 0 130,615 66,776 87,684 868,809
8. PROJECTS REQ CATEGORY <u>CODE</u> 131-134 141-454	UESTED <u>PROJEC</u> Consolida JIAC Con	IN THIS F <u>T TITLE</u> ated SATC solidation	ROGRAI COM/Tech - Phase 2	M: 1 Control F 2	Fac	(FY 2016 <u>SCOPE</u> 5,079 19,453 TOTAL) SM SM	COST <u>\$,000</u> 36,424 <u>94,191</u> 130,615	DESIGN <u>START</u> Design Bi Design Bi	STATUS <u>CMPL</u> uild uild
9a. Future Projects:	Typical F	Planned in	Next Fou	ir Years:						
141-454	JIAC Con	solidation	- Phase 3	3				54.635		
141-832	Main Gate	e Comple>	¢			TOTAL		<u>12,141</u> 66,776	-	
9b. Real Property M	laintenanc	e Backlog	This Inst	allation: (S	\$M)					48
10. Mission or Major communications to the AFSPC, DoS & MoD Theater to CONUS of	10. Mission or Major Functions: Provide outstanding installation. ((iv)) 48 communications to the warfighter across the entire spectrum of operations. Supports NATO, EUCOM, CENTCOM, AFSPC, DoS & MoD operations. Sustain over 420 command and control circuits supporting 25% of all European Theater to CONUS communications.									
a. Air pollution	lution and	Safety (O	SHA) Det	iciencies:				0		
b. Water Pollutic	on							0		
c. Occupational	Safety and	d Health						0		
d. Other Environ	nmental							0		

DD Form 1390, 24 Jul 00

(computer ge 7. RPSUID 1638 . COST ESTIM	4. PI CONSC /PROJE 8/EXSWI IATES	d) ROJECT TITLE DLIDATED SAT CT NUMBER L23006	COM/TECH CONT 8. PROJECT C 3	ROL FACILITY 205T (\$000) 6,424
E 7. RPSUID 1638 . COST ESTIM	4. PI CONSC /PROJE B/EXSWI IATES U/M	ROJECT TITLE DLIDATED SAT CT NUMBER L23006	COM/TECH CONT 8. PROJECT C 3	ROL FACILITY COST (\$000) 6,424
E 7. RPSUID 1638 . COST ESTIM	VPROJE 3/EXSW1 IATES U/M	CT NUMBER	8. PROJECT C	COST (\$000) 6,424
1638 . COST ESTIM	3/EXSW1 IATES U/M	23006	3	6,424
. COST ESTIM	U/M			
4)	U/M			
4.)		QUANTITY	UNIT	COST (\$000)
4)				22,224
±/	SM	2,830	4,182	(11,835)
	SM	2,229	3,469	(7,732)
	SM	20	3,469	(69)
ANTENNA TERMINAL FOUNDATIONS				(2,000)
SUSTAINABILITY AND ENERGY MEASURES				(587)
SUPPORTING FACILITIES				10,295
	LS			(946)
	LS			(932)
	LS			(1,500)
	LS			(456)
	LS			(3,684)
	SM	7,979	208	(1,660)
	LS			(117)
	LS			(750)
	LS			(250)
				32,518
				1,626
				34,144
(2.5%)				854
OF SUBTOTAL)			_	1,301
				36,299
				36,424
NON-ADD)				
	(2.5%) OF SUBTOTAL) NON-ADD)	(2.5%) OF SUBTOTAL)	(2.5%) OF SUBTOTAL)	LS LS LS LS LS LS LS LS LS LS

Communications (SATCOM)/TECH Control and administrative/storage facility (422d Comm Sq) meeting mission requirements 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. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 300 Tons

11. Requirement: 5079 SM Adequate: 0 SM Substandard: 7979 SM <u>PROJECT:</u> Construct Consolidated SATCOM/TECH Control and Communication Squadron

1. COMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE RAF CROUGHTON CONSOLIDATED SATCOM/TECH CONTROL FACILITY RAF CROUGHTON SITE # 1 UNITED KINGDOM 5. PROGRAM ELEMENT 7. RPSUID/PROJECT NUMBER 6. CATEGORY CODE 8. PROJECT COST (\$000) 27576 131-134 1638/EXSW123006 36,424

Operations Facility. (Current Mission)

REQUIREMENT: This project is required to provide a purpose-built consolidated SATCOM/Tech Control (Protection Level 1 facility) and an administrative communications squadron operations facility that meets operational requirements for the 422 ABG mission at RAF Croughton, United Kingdom. The operations and missions supported by the 422 ABG include the President of the United States, Secretary of Defense, EUCOM, USAFE, AFRICOM, NATO, SCOPE Command, US State Department (supporting 155 US Embassy's worldwide), US Army and Navy, Joint Forces Commanders, Foreign Governments, Civil Air Patrol, Tactical Air Control Parties, Allied Rapid Response Corps and Combatant Commanders in the European/African/Southwest Asia areas of operations. These 422 ABG primary facilities support the core Air Force mission of winning the fight in cyberspace, supports the Department of Defense's global strike capabilities and also the United Kingdom only runway capable of supporting B-52 missions. In addition to supporting the entities above, these facilities support 420 long haul circuits providing 67% of all United Kingdom to Europe/Africa/Southwest Asia areas of operations communications as well as 24% of all European theater communications to the continental United States 24/7/365. This project is required to recapitalize inadequate and inefficient, non-purposebuilt communications facilities and to provide additional, purpose-built space to fully enable current communications operations. This project will enable the demolition of 6,227 SM; facilities to be "demolished" are the current SATCOM facility (bldg 180/183) and Cyber Transportation Control Facility (bldg 30/43) and a number of support facility/structures. Work space is needed to accommodate 200 personnel which is the entire 422 Communication Squadron.

CURRENT SITUATION: RAF Croughton is classified as an enduring Air Force installation and is also host for US State Department Communication facilities. The existing buildings are 1950's constructed facilities that do not meet present day or future requirements and contain missions that cannot be shut-down/removed to temporary facilities to perform major renovations, which would surpass its current economic value (75%). Electrical and HVAC systems are outdated, inefficient and provide no possibility of potential mission expansion. Recent installation of new antenna dishes has maximized power capacity production and the current electrical layout poses potential safety risks to personnel operating within the facility and threatens the integrity of communication missions. Operational floor space is densely overpopulated with communication equipment, administrative and functional support areas have both space and configuration limitations and facilities such as restrooms and break rooms are completely inadequate. Energy and annual maintenance costs for the critical building systems that support these facilities are excessive and shall continue to increase with time. All facilities are beyond economical repair due to their age, physical deterioration and the presence of asbestos based materials. Facilities do not meet current code criteria for AT/FP, Life Safety or ADA. Construction of a new facility will enable the demolition of 6,227 SM of inadequate facilities and a further 1,752 SM of support facilities and structures. The existing communications facilities are located on opposite ends of the base which results is logistical inefficiencies for key personnel.

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA					2. DATE
AIR FORCE						
3. INSTALLATION	N, SITE AND LOCATION			4. PROJECT TITLE		
RAF CROUGHTON	CONSOLIDATED SATCOM/				COM/TECH CONTR	OL FACILITY
RAF CROUGHTON S	AF CROUGHTON SITE # 1					
UNITED KINGDOM						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)
27576	131-134 1633			/EXSW123006	36	5,424

IMPACT IF NOT PROVIDED: The severe space and infrastructure deficiencies of these facilities are beyond economical repair. The shortfalls and inadequacies of the facilities will continue to pose a threat to the mission operations within buildings 30 and 180. This substandard facility environment has potential for hindering communications support to the President of the United States, Department of Defense, United Kingdom Ministry of Defense, United States Department of State, NATO and 24% of all United States, European theater communications. The enduring mission at RAF Croughton will continue to require increasing amounts of reactive maintenance and escalating upgrade costs due to the deteriorating condition of the buildings. RAF Croughton mission personnel will continue to be accommodated in facilities which do not meet current code criteria for AT/FP, life safety and handicap accessibility and which do not provide an adequate Quality of life or Quality of Service environment.

ADDITIONAL: This project is not currently eligible for NATO funding. This project meets applicable criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements: new construction. New construction is the only viable option because the renovation costs would exceed 75% PRV of the facilities (which were built in 1950's and beyond economic life) and because mission in the two facilities cannot be shut-down or relocated until dual-ops can be established which would add additional cost far exceeding its current replacement value. Therefore, a waiver will be prepared. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: 0011-44-1280-708169; SATCOM/TECH Control: 2,830 SM = 30,462 SF; Administrative/Storage Facility: 2,229 SM = 23,993 SF; Entry Control Facility: 20 SM = 215 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: POUND .6363

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

0

• COMPONENT FY ZUIG MILIT				2 53 57
IR FORCE (c	omputer ge	nerated)	T DATA	Z. DATE
. INSTALLATION AND LOCATION		4. PROJECT	TITLE	
AF CROUGHTON		CONSOLIDATE	D SATCOM/TECH C	ONTROL
AF CROUGHTON SITE # 1		FACILITY		
NITED KINGDOM				
. PROGRAM ELEMENT 6. CATEGORY	CODE 7. P	ROJECT NUMBER	8. PROJECT C	OST (\$000)
27576 131-134	163	8/EXSW123006	36	,424
2. SUPPLEMENTAL DATA:				
a. Estimated Design Data:				
(1) Project to be accomplished	by design-	build proced	ures	
(2) Basis:				
(a) Standard or Definitive D (b) Where Design Was Most R	Design - ecently Us	ed -		NO
(3) All Other Design Costs				0
(4) Construction Contract Award	1			16 SEP
(5) Construction Start				16 DEC
(6) Construction Completion				18 JUN
(7) Energy Study/Life-Cycle ana	alysis was/	will be perf	ormed	NO
		FIS	CAL YEAR	
EQUIPMENT NOMENCLATURE	PROCURING	FIS APPRC APP OR	CAL YEAR ROPRIATED REQUESTED	COST (\$000
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY	PROCURINO	FIS APPRC APP OR 0	SCAL YEAR ROPRIATED REQUESTED 2016	COST (\$000 1,500
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP	PROCURINO 308 308	FIS APPRC APP OR 0	SCAL YEAR ROPRIATED REQUESTED 2016 2016	COST (\$000 1,500 5,200
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP OFFICE FURNITURE/EQUIPMENT	PROCURINO 308 308 340	FIS APPRC APP OR 0 0	SCAL YEAR ROPRIATED REQUESTED 2016 2016 2017	COST (\$000 1,500 5,200 670
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP OFFICE FURNITURE/EQUIPMENT TELEPHONES	PROCURING 308 308 340 340	FIS APPRC APP OR 0 0 0 0	SCAL YEAR ROPRIATED 2016 2016 2017 2017	COST (\$000 1,500 5,200 670 60
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP OFFICE FURNITURE/EQUIPMENT TELEPHONES INTRUSION DETECTION SYSTEM	PROCURINO 308 308 340 340 308	FIS APPRC APP OR 0 0 0 0 0	CAL YEAR ROPRIATED 2016 2016 2017 2017 2016	COST (\$000 1,500 5,200 670 60 300
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP OFFICE FURNITURE/EQUIPMENT TELEPHONES INTRUSION DETECTION SYSTEM	PROCURINO 308 308 340 340 308	FIS APPRC APP OR 0 0 0 0 0	SCAL YEAR ROPRIATED 2016 2016 2017 2017 2016 2016	COST (\$000 1,500 5,200 670 60 300
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP OFFICE FURNITURE/EQUIPMENT TELEPHONES INTRUSION DETECTION SYSTEM	PROCURINO 308 308 340 340 308	FIS APPRC APP OR 0 0 0 0 0	SCAL YEAR ROPRIATED 2016 2016 2017 2017 2017 2016	COST (\$000 1,500 5,200 670 60 300
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP OFFICE FURNITURE/EQUIPMENT TELEPHONES INTRUSION DETECTION SYSTEM	PROCURINO 308 308 340 340 308	FIS APPRC APP OR 0 0 0 0	SCAL YEAR ROPRIATED 2016 2016 2017 2017 2016	COST (\$000 1,500 5,200 670 60 300
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP OFFICE FURNITURE/EQUIPMENT TELEPHONES INTRUSION DETECTION SYSTEM	PROCURINO 308 308 340 340 308	FIS APPRC APP OR 0 0 0 0 0	SCAL YEAR ROPRIATED 2016 2016 2017 2017 2017 2016	COST (\$000 1,500 5,200 670 60 300
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP OFFICE FURNITURE/EQUIPMENT TELEPHONES INTRUSION DETECTION SYSTEM	PROCURINO 308 340 340 308	FIS APPRC APP OR 0 0 0 0 0	SCAL YEAR ROPRIATED 2016 2016 2017 2017 2016 2016	COST (\$000 1,500 5,200 670 60 300
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP OFFICE FURNITURE/EQUIPMENT TELEPHONES INTRUSION DETECTION SYSTEM	PROCURINO 308 340 340 308	FIS APPRC APP OR 0 0 0 0 0	SCAL YEAR ROPRIATED 2016 2016 2017 2017 2017 2016	COST (\$000 1,500 5,200 670 60 300
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP OFFICE FURNITURE/EQUIPMENT TELEPHONES INTRUSION DETECTION SYSTEM	PROCURINO 308 340 340 308	FIS APPRC APP OR 0 0 0 0 0	SCAL YEAR ROPRIATED 2016 2016 2017 2017 2016 2016	COST (\$000 1,500 5,200 670 60 300
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP OFFICE FURNITURE/EQUIPMENT TELEPHONES INTRUSION DETECTION SYSTEM	PROCURING 308 340 340 308	FIS APPRC APP OR 0 0 0 0 0	CAL YEAR ROPRIATED 2016 2016 2017 2017 2017 2016	COST (\$000 1,500 5,200 670 60 300
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP OFFICE FURNITURE/EQUIPMENT TELEPHONES INTRUSION DETECTION SYSTEM	PROCURINO 308 340 340 308	FIS APPRC APP OR 0 0 0 0 0	SCAL YEAR ROPRIATED 2016 2016 2017 2017 2017 2016	COST (\$000 1,500 5,200 670 60 300
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP OFFICE FURNITURE/EQUIPMENT TELEPHONES INTRUSION DETECTION SYSTEM	PROCURING 308 340 340 308	FIS APPRC APP OR 0 0 0 0 0	CAL YEAR ROPRIATED 2016 2016 2017 2017 2016 2016	COST (\$000 1,500 5,200 670 60 300
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP OFFICE FURNITURE/EQUIPMENT TELEPHONES INTRUSION DETECTION SYSTEM	PROCURING 308 340 340 308	FIS APPRC APP OR 0 0 0 0 0 0	CAL YEAR ROPRIATED 2016 2016 2017 2017 2017 2016	COST (\$000 1,500 5,200 670 60 300
EQUIPMENT NOMENCLATURE UNINTERRUPTED POWER SUPPLY TECH CONTROL FAC (TCF) EQUIP OFFICE FURNITURE/EQUIPMENT TELEPHONES INTRUSION DETECTION SYSTEM	PROCURING 308 340 340 308	FIS APPRC APP OR 0 0 0 0 0	CAL YEAR ROPRIATED 2016 2016 2017 2017 2016 2016	COST (\$000 1,500 5,200 670 60 300

1. COMPONENT		FY 2016 MILIT	ARY CONSTRU	CTION	PROJECT DAT	ГА	2. DATE	
AIR FORCE	(computer generated)							
3. INSTALLATION, SITE AND LOCATION				4. PROJECT TITLE				
RAF CROUGHTON				JOINI	INTELLIGEN	CE ANALYSIS	COMPLEX	
RAF CROUGHTON SITE # 1				CONSC	LIDATION, P	Н2		
UNITED KINGDOM								
5. PROGRAM ELEM	5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID				CT NUMBER	8. PROJECT	COST (\$000)	
27576 141-454 1638					43012		94,191	
		9. C	OST ESTIMA	TES				
ITEM				U/M	OUANTITY	UNIT	COST	
							(\$000)	
PRIMARY FACILIT	IES						67,248	
AFRICOM INTELL	IGENCE	ANALYTIC CENTER (14	1454)	SM	4,318	5,117	(22,095)	
INTELLIGENCE F	USION	CENTER (141454)		SM	3,387	4,229	(14,323)	
BATTLEFIELD IN	FO COL	LECTION&EXPLOTATION	SYS	SM	1,183	4,229	(5,003)	
DORMITORY, 168	ROOMS	3 (721312)		SM	6,384	2,390	(15,258)	
VISITING QUART	ERS CC	NVERSION/RENO (72441	.7)	SM	3,213	1,759	(5,652)	
CHILD DEVELOPM	ENT CE	INTER ADDITION (74088	34)	SM	438	3,752	(1,643)	
POST OFFICE AD	DITION	/RENOVATION (730443)		SM	530	1,844	(978)	
ELEVATORS				EA	3	116,492	(349)	
SUSTAINABILITY	AND E	NERGY MEASURES		LS			(1,948)	
SUPPORTING FACE	LITIES						16,240	
UTILITIES				LS			(4,912)	
CHILLER PLANT				LS			(764)	
SITE IMPROVEME	NTS			LS			(1,892)	
PAVEMENTS, WAL	KWAYS	AND LIGHTING		LS			(4,207)	
EXTERIOR COMMI	CATION	IS		LS			(2,766)	
PASSIVE FORCE	PROTEC	TION/SECURITY FENCE		LS			(922)	
COUNTRY ROOMS	RELOCA	TION		LS			(777)	
SUBTOTAL							83,489	
CONTINCENCY	(5 0%)					4 174	
TOTAL CONTRACT	(5. 0%	,					87 663	
CUDEDVICION IN	CODI	ON AND OVEDHEAD	(0 5%)				2,102	
DESIGN/BUILD -	DEGICIT	COST (4.0% OF S					3 340	
TOTAL REQUEST	DEDIGN		, obioina,				93,194	
TOTAL REQUEST		(תי					94 101	
FOULDMENT EDOM		ADDDODDIATTONS (NON-	(תתג				10,000	
EQUIPMENT FROM		APPROPRIATIONS (NON-					12,890	
10. Description	LON OI	Proposed Construction	Center B	nstru attle	ct USAFRIC	rmation Col	lection and	
Exploitation S	Svstem	Center, Dormitory	v (168 roo	ms).c	onversion/	renovation	of old	
dormitories to	o Visi	ting Quarters and	additions	/alte	rations to	Child Deve	elopment	
Center and Pos	st Off	ice utilizing conv	ventional	desig	n and cons	truction me	thods to	
accommodate th	ne mis	ssions of the facil	lities. The	e fac	ilities sh	ould be con	npatible	
with applicabl	le DoI), Air Force, and b	base desig	n sta	ndards. In	addition,	local	
materials and	const	ruction techniques	s shall be	used	where cos	t effective	e.	
Facilities wil	Ll be	designed as perman	nent const:	ructi	on in acco	rdance with	n the DoD	
antiterrorian	LCIES	criteria (UFC) 1-2	coments por	r Ini	fied Facil	ities Crite	u DOD ria UFC 4-	
101-01 and Int	cellig	gence Community Di	rective 70	5 and	the stric	ter of US,	United	

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Previous editions are obsolete. Page

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE	(computer generated)								
3. INSTALLATION,	, SITE AND LOCATION 4. PROJECT TITLE								
RAF CROUGHTON				JOINT INTELLIGEN	CE ANALYSIS CO	MPLEX			
RAF CROUGHTON SI	TE #	1		CONSOLIDATION, P	Н2				
UNITED KINGDOM									
5. PROGRAM ELEME	INT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	OST (\$000)			
27576	141-454 1638/EXSW143012 94,191								
Kingdom or European Union laws and norms.									
Air Conditioning: 500 Tons									
11. Requirement	t: 19	453 SM Adequate	e: 0 SM	Substandard: 1	6216 SM				
PROJECT: Const	truct	Joint Intelligend	e Analysi	s Complex, Phas	e 2 (New Mis	sion)			
REQUIREMENT: 1	This	project is require	ed to prov	ide a purpose-b	uilt Joint				
Intelligence Ar	nalys	is and Production	Complex w	hich recapitali	zes and conse	olidates			
all RAF Moleswo	orth	(RAFM) Intelligend	ce operati	ons and mission	s in support	of US			
European Comman	nd (U	SEUCOM) and US Afr	rica Comma	nd (USAFRICOM).	This				
consolidation/r	reloc	ation to RAF Croug	ghton (end	uring communica	tion installa	ation)			
will create ope	erati	onal and mission s	support ef	ficiencies and	allow divest:	iture of			
RAFs Molesworth	n and	Alconbury (1,800,	,000 sq ft). This projec	t is required	d to			
recapitalize in	nadeq	uate and inefficie	ent, nonpu	rpose-built int	elligence and	alytic			
facilities at F	RAFM	and to provide add	litional,	purpose-built s	pace to fully	y enable			
current intelli	igenc	e missions directe	ed since t	he USEUCOM Join	t Intelligend	ce			
Operations Cent	ter (JIOCEUR) Analytic	Center (J	AC) stood up in	1991 and US	AFRICOM			
J2-M in 2008. 1	These	organizations pro	ovide all-	source intellig	ence during p	peace,			
crisis and war,	, 24/	7/365. This proje	ect is req	uired to suppor	t responsive	and agile			
Theater, Joint,	, all	-source intelliger	ice analys	is & production	, gain and ma	aintain			
information dom	ninan 'asar	ce, and to support	the COCO	M'S Strategy of	Active Secur	rity			
Engagement (DNI	Igenc	e Building Partner	rsnip Capa	int Intelligence	Partner Natio				
Order (DTC 0216	5) MI	DP 06) directed or	signed Jo	nt of IIOC fagi	lition at all				
"to operate too	JUZ A	r as a cohesive te		ffectively carr	v out this c	ritical			
mission, the US	SEUCO	M JAC and USAFRICO	M_T2-M_re	guire adequatel	y sized and	LICICAL			
effectively cor	nfiqu	red facility that	consolida	tes intelligenc	e personnel v	with other			
national and in	ntern	ational intelliger	nce agency	representative	s to provide	coherent,			
timely, actiona	able	intelligence to th	ne US, NAT	0 and Coalition	forces. Wo	rk space			
is needed for a	appro	ximately 1,200 per	sonnel wi	th rapid expans	ion capabili	ty to			
integrate up to	5 81	Joint Reserve Inte	elligence	Support Element	Reserve pers	sonnel			
during surge op	perat	ions.							
CURRENT SITUATI	ION:	Intelligence miss	sion growt	h at RAFM of ov	er 500% since	e 1991 has			
resulted in a s	sever	e shortfall of int	elligence	spaces, result	ing in intel	missions			
being housed in	n ove	r 21 undersized, w	videly-dis	persed faciliti	es, including	g a WWII			
B-17 hangar, se	evera	l Cold War Cruise	Missile f	acilities and l	eased, reloca	atable			
facilities. Nor	ne of	the current perma	anent faci	lities were pur	pose-built fo	or their			
current use. Th	nis s	hortfall constrair	ns COCOM d	ecision making	processes and	£			
collaborative i	intel	ligence analysis;	and degra	des the reliabi	lity of theat	ter and			
national commun	nicat	ions and intellige	ence asset	s. In addition	to minimal 1	Base			
Operations (BAS	SOPS)	expenditures, ove	er \$90M in	Intelligence C	ommunity mis:	sion funds			
have been spent	t sin	ce 2005 to keep th	nese aging	facilities and	supporting a	utilities			
systems in a mi	inima	lly sustainable st	ate. Curr	ent Intelligenc	e mission fac	cilities			
are 13 miles fr	rom s	upport facilities,	wasting	thousands of pe	rsonnel-hour:	s of			
analytic effort	t per	year in travel ti	me and ex	posing personne	1 to one of t	the UKs			
most hazardous	and	neavily trafficked	1 roads. A	ging and ineffi	cient primary	y power,			
back-up power a	and C	ooling systems Cri	tical to	the intelligenc	e mission are	e not able			

DD FORM 1391, DEC 99 Previous editions are obsolete.

 1. COMPONENT
 FY 2016 MILITARY CONSTRUCTION PROJECT DATA
 2.

 AIR FORCE
 (computer generated)
 2.

 3. INSTALLATION, SITE AND LOCATION
 4. PROJECT TITLE

RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM 4. PROJECT TITLE JOINT INTELLIGENCE ANALYSIS COMPLEX CONSOLIDATION, PH2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000)
27576	141-454	1638/EXSW143012	94,191

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.

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 \$75M/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 is not currently eligible for NATO funding. This project meets applicable criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. Current organizations and missions to be consolidated in Phase 2 are the USAFRICOM J2-M (intelligence analysis and production for USAFRICOM); Intelligence Fusion Centre (IFC) in support of NATO (intelligence analysis and production for NATO and Coalition forces); the Undersecretary of Defense for Intelligence (USD/I) International Intelligence Technology and Programs United States Battlefield Information Collection and Exploitation Systems (IITP USBICES) (information technology (IT) support). Elements of this program are not currently 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 will be prepared. This project has been coordinated with the installation physical security plan, and all physical security measures are included. All required antiterrorism protection measures are included. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: 011-44-1280-708169 AFRICOM/J2-M: 4,318 SM = 46,475 SF; IFC: 3,387 SM = 36,454 SF; BICES: 1,183 SM =

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DD FORM 1391, DEC 99
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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE					2. DATE	
AIR FORCE	(computer generated)						
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE			
RAF CROUGHTON				JOINT INTELLIGEN	CE ANALYSIS CO	MPLEX	
RAF CROUGHTON S	ITE #	1		CONSOLIDATION, P	н2		
UNITED KINGDOM							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	OST (\$000)	
27576		141-454	1638	/EXSW143012	94	,191	
12,733 SF; Dormitory: 6,384 SM = 68,711 SF; VQ: 3,213 SM = 34,582; CDC: 438 SM = 4,714 SF; PO: 530 SM = 5,704 SF.							
FOREIGN CURREN	ICY:	FCF Budget Rate Us	sed: POUND	.6289			
JOINT USE CERT	IFICA	TION: This facilit	ty is prog	rammed for join	t use with a	ll the	
services; howe	ever,	it is fully funded	d by the A	ir Force.			
_		-	-				

COMPONENT						
IR FORCE	FY 2016	MILITARY CO	ONSTRUCTION F er generated)	ROJECT	DATA	2. DATE
ΤΝΟΨΑΤΙΑΤ			4		TP	
. INSTALLATI	-		4. PROC	ECT TIT		
AF CROUGHTON			JOINT	NTELLIG	ENCE ANALYSI:	3 COMPLEX
NTTED KINGDO)M		CONSOLI	DATION,	PHZ	
. PROGRAM EI	EMENT 6. CATE	GORY CODE	7. PROJECT N	UMBER	8. PROJECT CC)ST (\$000)
27576	14	1-454	1638/EXSW14	13012	94,	,191
2. SUPPLEMEN	NTAL DATA:					
a. Estimate	ed Design Data:					
(1) Proje	ct to be accompli	shed by dea	sign-build pr	cocedure	s	
(2) Basis	:					
(a) S1 (b) W]	andard or Definition nere Design Was Ma	tive Design ost Recentl	n - Ly Used -			NO
(3) All O	ther Design Costs	ţ				1,800
(4) Const	ruction Contract	Award				16 MAY
(5) Const	ruction Start					16 SEP
(6) Const	ruction Completic	n				19 JUN
(7) Energ	y Study/Life-Cycl	e analysis	was/will be	perform	ned	NO
EQUIPMEN:	I NOMENCLATURE	PROC	URING APPRC	APPROI OR RE(PRIATED QUESTED	COST (\$000
FURNISHI	NGS - MSN SPT FAC		3400	20	018	2,000
FURNISHI	NGS - INTEL FAC		2020	20	018	3,540
INTRUSIO	N DETECTION SYSTE	MS EQ	2035	21	118	
				20	10	2,500
TELEPHON	ES, VTC, OTHER EQ	UIP	2035	20	018	2,500 850
COMMUNIC	ES, VTC, OTHER EQ ATION, DATA PROCE	UIP SSING	2035 300	20	018 018	2,5 8 4,0

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	1					DIANTI	-		
1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE	(computer generated)								
3. INSTALLATION	, SITE	E AND LOCATION		4. PF	ROJECT TITL	E			
WORLDWIDE CLASS	IFIED			LONG	RANGE STRI	KE BOMBER			
CLASSIFIED LOCA	CLASSIFIED LOCATION								
5. PROGRAM ELEM	I ELEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$00)						OST (\$000)		
64014		390-222	/PA	YZ1600	AO	77	7,130		
9. COST ESTIMATES						l			
						UNIT	COST		
		ITEM		U/M	QUANTITY		(\$000)		
	FR						77 130		
PRIMARI PACILIII							(== 120)		
SPECIAL EVALUA	FION F	KUGRAM		LS			(//,130)		
SUPPORTING FACII	ITIES						0		
SUBTOTAL						_	77,130		
TOTAL CONTRACT C	COST					_	77,130		
TOTAL REQUEST							77,130		
TOTAL REQUEST (F	ROUNDE	D)					77,130		
10. Descripti	on of	Proposed Constru	uction: Th	is pr	oject requ	irements and	l		
construction t	ype w	vill be noted in t	the Classif	ied D	D Form 139	91			
11 Poguiromon	⊢ . ⊤	G Adoguator I	C Cubat	andar	d. TC				
	i	io Adequate. I		andar	a. 15				
PROJECI: AS R	equir	ed		-1	rified DD	Term 1201 ed	11 ha		
provide upon r	spect	at access is requ	iirea. ine	CIAS	SILIEG DD	FOLU ISAI MI	II be		
provide upon r	equeb								

1. COMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA						2. DATE				
AIR FORCE	AIR FORCE (computer generated)									
3. INSTALLATI	ON AND I	LOCATION		4. PROJECT	TITLE					
WORLDWIDE CLA	SSIFIED			LONG RANGE	STRIKE BOMBER					
CLASSIFIED LO	CATION	Ι			1					
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	OST (\$000)				
64014		390-222	/ PA	YZ16000A	77,	,130				
12. SUPPLEMENTAL DATA:										
a. Estimate	d Design	n Data:								
(1) Statu	s:									
(a) Da	te Desig	gn Started		. .						
(b) Pa	rametri	c Cost Estimates use	ed to de	evelop costs		YES				
* (d) De	te 35% 1	Designed	2015							
(e) Da	te Desid	gn Complete								
(f) En	ergy St	udy/Life-Cycle analy	vsis was	s/will be per	formed	NO				
(2) Basis	:									
(a) St	andard o	or Definitive Design	1 -			NO				
(b) Wh	(b) Where Design Was Most Recently Used -									
(3) Total	Cost (c) = (a) + (b) or (d)	l) + (e)	:		(\$000)				
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		0				
(b) Al	l Other	Design Costs				0				
(c) To	otal					0				
(d) Co	ntract					0				
	-nouse					Ū				
(4) Const	ruction	Contract Award								
(5) Const	ruction	Start								
(6) Const	ruction	Completion								
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.										
b. Equipmen N/A	t assoc:	iated with this proj	ject pro	ovided from c	other appropri	ations:				
							-			
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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA 2. DATE									
AIR FORCE	(computer generated)									
3. INSTALLATION	ISTALLATION, SITE AND LOCATION 4. PROJECT TITLE									
WORLDWIDE CLASS	IFIED			MUNIT	IONS STORA	GE IGLOOS				
CLASSIFIED LOCA	TION									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT C	OST (\$000)			
27248	27248 422-264 /PAYZ1					YZ16000B 3,000				
		9.	COST ESTIM	TES						
						UNIT	COST			
		ITEM		U/M	QUANTITY		(\$000)			
PRIMARY FACILITI	ES						3,000			
MINITTONS STOP		1.00		T.C			(3 000)			
							(5,000)			
SUPPORTING FACII	ITIES						0			
SUBTOTAL						_	3,000			
TOTAL CONTRACT C	OST					_	3,000			
TOTAL REQUEST							3,000			
TOTAL REQUEST (F	ROUNDE	D)					3,000			
10. Descripti	on of	Proposed Constru	uction: Th	is pr	oject requ	irements and	L			
construction t	ype w	vill be noted in t	the classif	ied D	D Form 139	91				
11. Requiremen	t: 0	LS Adequate: () LS Sub	stand	ard: 0 LS					
PROJECT: As r	equir	red								
REQUIREMENT:	Speci	al access is requ	uired. The	clas	sified DD	Form 1391 wi	ll be			
provided upon	reque	st								

1. COMPONENT FY 2016 MILITARY CONSTRUCTION PROJECT DATA									
AIR FORCE (computer generated)									
3. INSTALLATION AND LOCATION 4. PROJECT TITLE									
WORLDWIDE CLA	IORAGE IGLOOS								
CLASSIFIED LOCATION									
5. PROGRAM EL	EMENT	JECT NUMBER	8. PROJECT CO	ST (\$000)					
27248	3,	000							
12. SUPPLEMENTAL DATA:									
a. Estimate	d Design	n Data:							
(1) Statu	s:								
(a) Da	te Desig	gn Started							
(b) Pa	rametrio	c Cost Estimates use	ed to de	evelop costs		YES			
* (c) Pe	rcent Co	omplete as of 01 JAN	1 2015						
* (d) Da	te 35% 1	Designed							
(e) Da (f) En	erav Sti	gn Compiete udv/Life-Cvcle analv	vsis was	s/will be per	formed	NO			
(_,	51 - 51								
(2) Basis	:								
(a) St (b) Wb	andard o	or Definitive Design	u -	_		NO			
(D) WI	lere Des.	Ign was Most Recentl	.y oseu						
(3) Total	Cost (d	c) = (a) + (b) or (d)	l) + (e)	:		(\$000)			
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		0			
(d) Al	1 Otner	Design Costs				0			
(d) Co	ntract					0			
(e) In		0							
(4) Const	ruction	Contract Award							
(5) Const	ruction	Start							
(6) Const	ruction	Completion							
* Indicat	65 GOMD	lation of Project De	finitio	n with Daram	etria Cost Es	timato			
* Indicates completion of Project Definition with Parametric Cost Estimate									
cost and executability.									
		_							
b. Equipmen	t assoc:	iated with this proj	ject pro	ovided from c	ther appropri	ations:			
N/A			_						

DD FORM 1391, DEC 99

1. COMPONENT		FY 2016 MIL	ITARY CONSTRU	CTION	PROJECT D	ATA	2. DATE		
AIR FORCE	(computer generated)								
3. INSTALLATION, SITE AND LOCATION WORLDWIDE UNSPECIFIED					4. PROJECT TITLE UNSPECIFIED MINOR MILITARY CONSTRUCTION				
VARIOUS LOCATIONS									
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/PF	ROJECT NUMBER 8. PROJECT C			OST (\$000)		
91211		962-000	/PAY	AYZ160003 22,900					
		9.	COST ESTIMA	TES			000		
		ITEM		U/M	QUANTITY	UNIT	(\$000)		
PRIMARY FACILIT	ES						22,900		
MILCON MINOR C	ONSTRU	JCTION		LS			(22,900)		
SUPPORTING FACII	LITIES						0		
SUBTOTAL						_	22,900		
TOTAL CONTRACT (COST					_	22,900		
TOTAL REQUEST							22,900		
TOTAL REQUEST (I	ROUNDE	:D)					22,900		
10. Descripti	on of	Proposed Constru	uction:						
11. Requiremen	t:	Adequate:	Substandar	d:					
PROJECT: AS T	equir Nimer	red.			J h 10 T				
military const	ructi	on projects with	an estimate	d fu	a by 10 0. nded cost	of more than	are \$1,000,000		
and equal or 1	ess t	han \$3,000,000.	This author	ity :	provides a	a means of ac	complishing		
projects that	are n	ot identified but	t which are	anti	cipated to	o arise durin	g FY16.		
Included would	be p	projects to suppor	rt new missi	on r	equirement	s, new equip	ment, and		
other essentia	l sup	port to Air Force	e missions.						

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA						2. DATE		
AIR FORCE	(computer generated)								
3. INSTALLATION, SITE AND LOCATION WORLDWIDE UNSPECIFIED				4. PROJECT TITLE PLANNING AND DESIGN					
VARIOUS LOCATIONS									
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUID/F					ROJECT NUMBER 8. PROJECT COST (\$000)				
91211 961-000			/PA	PAYZ160002 8:			39,164		
9. COST ESTIMATES									
ITEM				U/M	QUANTITY	UNIT	COST (\$000)		
PRIMARY FACILITIES							89,164		
PLANNING AND D	ESIGN	(91211)		LS			(47,538)		
PLANNING AND DESIGN (27576)				LS			(40,800)		
PLANNING AND DESIGN (27248)				LS			(826)		
SUPPORTING FACILITIES							0		
SUBTOTAL						_	89,164		
TOTAL CONTRACT COST						_	89,164		
TOTAL REQUEST							89,164		
TOTAL REQUEST (ROUNDED)							89,164		
10. Description of Proposed Construction:									

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 FY17 Military Construction Program, initiate design of facilities in the FY18 Military Construction Program, and accomplish planning and design for major and complex technical projects with long lead-times to be included in subsequent Military Construction programs. These funds may be used for value engineering and for support of the design and construction management of projects that are funded by foreign governments and for design of classified and special programs. The funds may also be used for developing the Tri-Services Cost Estimating Guide and Unified Facilities Criteria.

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