Fiscal Year (FY) 2017 Budget Estimates

AIR FORCE RESERVE



FY 2017 MILITARY CONSTRUCTION PROGRAM

February 2016

DEPARTMENT OF THE AIR FORCE AIR FORCE RESERVE MILITARY CONSTRUCTION PROGRAM JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 2017

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DEPARTMENT OF THE AIR FORCE AIR FORCE RESERVE MILITARY CONSTRUCTION PROGRAM (DOLLARS IN THOUSANDS)

MAJOR CONSTRUCTION

FY 2017 MILITARY CONSTRUCTION PROJECTS LIST

STATE/ <u>COUNTRY</u>	INSTALLATION AND PROJECT	AUTH OF APPROP <u>AMOUNT</u>	APPROP AMOUNT	DD FORM 1391 <u>PAGE #</u>
North Carolina	Seymour Johnson AFB KC-46A Two Bay Corrosion/Fuel Cell Hangar	<u>90,000</u>	<u>90,000</u>	4
North Carolina	Seymour Johnson AFB KC-46A ADAL Building for Age/Fuselage Training	<u>5,700</u>	<u>5,700</u>	7
North Carolina	Seymour Johnson AFB KC-46A ADAL Squadron Operations Facility	<u>2,250</u>	<u>2,250</u>	9
Pennsylvania	Pittsburgh ARS C-17 Construct Two Bay Corrosion/Fuel Cell Hangar	<u>54,000</u>	<u>54,000</u>	13
Pennsylvania	Pittsburgh ARS C-17 ADAL Fuel Hydrant System	<u>22,800</u>	<u>22,800</u>	16
Pennsylvania	Pittsburgh ARS C-17 Construct/Overlay Taxiway & Apron	<u>8,200</u>	<u>8,200</u>	18
	SUBTOTAL	182,950	182,950	
	TOTAL IN THE UNITED STATES	182,950	182,950	
	Unspecified Minor Construction Planning & Design	1,500 <u>4,500</u>	1,500 <u>4,500</u>	
	GRAND TOTAL	188,950	188,950	

DEPARTMENT OF THE AIR FORCE AIR FORCE RESERVE MILITARY CONSTRUCTION PROGRAM (DOLLARS IN THOUSANDS)

MAJOR CONSTRUCTION

<u>FY 2017 MILITARY CONSTRUCTION PROJECTS</u> NEW/CURRENT MISSION, ENVIRONMENTAL LIST

<u>LOCATION</u>	PROJECT	<u>COST</u>	NEW, CURRENT <u>ENVIR</u>	<u>FOOTPRINT</u>
North Carolina	Seymour Johnson AFB KC-46A Two Bay Corrosion/Fuel Cell Hangar	<u>90,000</u>	New	New
North Carolina	Seymour Johnson AFB KC-46A ADAL Building for Age/Fuselage Training	<u>5,700</u>	New	New
North Carolina	Seymour Johnson AFB KC-46A ADAL Squadron Operations Facility	<u>2,250</u>	New	New
Pennsylvania	Pittsburgh ARS C-17 Construct Two Bay Corrosion/Fuel Cell Hangar	<u>54,000</u>	New	New
Pennsylvania	Pittsburgh ARS C-17 ADAL Fuel Hydrant System	<u>22,800</u>	New	New
Pennsylvania	Pittsburgh ARS C-17 Construct/Overlay Taxiway & Apron	<u>8,200</u>	New	New
	TOTAL	182,950		
	SUBTOTALS: New Mission Current Mission Environmental Unspecified Minor Construction Planning & Design	$182,950 \\ 0 \\ 0 \\ 1,500 \\ 4,500$		
	FY 2017 APPROPRIATIONS TOTAL:	188,950		

SECTION1

SPECIAL PROGRAM CONSIDERATIONS

DEPARTMENT OF THE AIR FORCE AIR FORCE RESERVE MILITARY CONSTRUCTION PROGRAM

MAJOR CONSTRUCTION

FY 2017 POLLUTION ABATEMENT/ENERGY CONSERVATION LISTING

No special program considerations in FY 2017.

SECTION 2

BUDGET APPENDIX EXTRACT

DEPARTMENT OF THE AIR FORCE AIR FORCE RESERVE MILITARY CONSTRUCTION PROGRAM

FY 2017 APPROPRIATION LANGUAGE

MILITARY CONSTRUCTION, AIR FORCE RESERVE

For construction, acquisition, expansion, rehabilitation, and conversion of facilities for the training and administration of the Air Force Reserve as authorized by Chapter 1803 of Title 10, United States Code, and Military Construction Authorization Acts, \$188,950,000 to remain available until September 30, 2021.

DEPARTMENT OF THE AIR FORCE AIR FORCE RESERVE MILITARY CONSTRUCTION PROGRAM

SPECIAL PROGRAM CONSIDERATIONS

Pollution Abatement

The military construction projects proposed in this program will be designed to meet environmental standards. Military construction projects proposed primarily for abatement of existing pollution problems at installations have been reviewed to ensure that corrective action is accomplished in accordance with applicable standards and criteria.

Energy Conservation

Military construction projects specifically designed for energy conservation at installations have been developed, reviewed and selected with prioritization by energy savings per investment costs. Projects include improvements to existing facilities and utility systems to upgrade design, eliminate waste, and install energy saving devices. Projects are designed for minimum energy consumption.

Flood Plain Management and Wetlands Protection

Proposed land acquisitions, disposals and installation construction projects have been planned to allow for the proper management of flood plains and protection of wetlands by avoiding long-term impacts, reducing the risk of flood losses, and minimizing the loss or degradation of wetlands. Project planning is in accordance with the requirements of Executive Order Nos. 11988 and 22990.

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.

Preservation of Historical Sites and Structures

Facilities in this program do not directly or indirectly affect any district, site, building, structure, object or setting listed in the National Register of Historic Places, except as noted on the project's DD Form 1391.

Environmental Protection

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

Economic Analysis

Economics are an inherent aspect of project development and design of military construction projects included in this program. This program represents the most economical use of resources.

Reserve Manpower Potential

The Reserve manpower potential to meet and maintain authorized strengths of all Reserve flying/nonflying units in those areas in which these facilities are to be located has been reviewed. It has been determined, in coordination with all other services having Reserve flying/non-flying units in these areas, that the number of units of the Reserve components of the Armed Forces presently located in these areas, and those which have been allocated to the areas for future activation, is not and will not be larger than the number that can reasonably be expected to be maintained at authorized strength levels considering the number of persons living in these areas who are qualified for membership in those Reserve units.

Potential Use of Vacant Schools & Other State & Local Facilities

The potential use of vacant schools and other state and local owned facilities has been reviewed and analyzed for each facility to be constructed under this program.

Congressional Reporting Requirements

Page iii, titled "New/Current Mission, Environmental List," is in response to a Senate Appropriations Committee requirement contained on page 10 (New and Current Mission Activities) of Report #100-380.

Unless otherwise noted, the projects comply with the scope and design criteria prescribed in Part II of Military Handbook 1190, "Facilities Planning and Design Guide."

SECTION 3

INSTALLATION AND PROJECT JUSTIFICATION DATA DD FORMS 1390 AND DD FORMS 1391

1. COMPONENT	FY 2016 GUARD	AND RESER	VE	2. DAT	Е
RESERVE	F	FEB 2016			
3. INSTALLATIO	4. ARE	4. AREA CONSTR COST INDEX			
SEYMOUR JOHN		0.82			
5. FREQUENCY A	AND TYPE UTILIZATION an, technician and AGR force. One unit (training assembly	per month. 15	davs annual fie	ld training
per year.		uning assering j	p ••• 1101101, 10	uuj 5 u uur 110	
6. OTHER ACTIV	/E/GUARD/RESERVE INSTALLATION	S WITHIN 15 MI	LE RADIUS		
None					
7 PROJECTS REA	OUESTED IN THIS PROGRAM				
CATEGORY CODE	PROJECT TITLE	SCOPE	COST (\$000)	DESIGN START	DESIGN COMPLETE
211-111 K	C-46A TWO BAY	16,815 SM	90,000	Mar 2016	Dec 2016
171-159 K	ORROSION/FUELHANGAR	2 800 SM	5 700	Mar 2016	Dec 2016
A	GE/FUSELAGE TRAINING	2,800 SW	5,700	Wiai 2010	Dec 2010
141-753 K	C-46A ADAL SQUADRON PERATIONS FACILITIES	737 SM	2,250	Mar 2016	Dec 2016
8. STATE RESER	VE FORCES FACILITIES BOARD REC	COMMENDATIO	N		
Not reviewed – Ne	ew Mission driven by AF Force Manager	ment decision			
9. LAND ACQUIS	SITION REQUIRED			(Numbe	er of Acres)
	NONE				
10. PROJECTS PI	LANNED IN NEXT FOUR YEARS				
CATEGORY			00000	COST	
<u>218-712</u>	KC-46A ADAL BLDG FOR AME ST	ORAGE	<u>SCOPE</u> 960 SM	<u>(\$000)</u> 6,400	<u>YEAR</u> 2018
RPM BACKLOG	AT THIS INSTALLATION (\$000):				
98,000					

1. COMPONENT AIR FORCE RESERVE

FY 2016 GUARD AND RESERVE MILITARY CONSTRUCTION

2. DATE

FEB 2016

3. INSTALLATION AND LOCATION

SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA

11. PERSONNEL STRENGTH AS OF JAN 2016

	PERMA	PERMANENT (ARTs, AGRs, Non-ART Civilians)			GUARD/		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	<u>ENLISTED</u>
AUTHORIZED	364	54	281	29	1,156	119	1,037
ACTUAL	255	37	194	24	1,117	113	1,004

12. RESERVE UNIT DATA

		STRE	NGTH
UNIT DESIGNATION		AUTHORIZED	ACTUAL
916 Air Refueling Wing		56	51
916 Operations Group		8	6
916 Operations Support Squadron		62	62
77 Air Refueling Squadron		97	60
916 Maintenance Group		56	46
916 Maintenance Squadron		229	181
916 Aircraft Maintenance Squadron		231	149
916 Mission Support Group		6	5
916 Civil Engineer Flight		44	57
916 Security Forces Squadron		67	89
916 Force Support Squadron		56	81
916 Logistics Readiness Squadron		78	108
916 Aerospace Medicine Squadron		56	81
307 Fighter Squadron		19	17
414 Fighter Group		26	14
414 Maintenance Squadron		220	154
567 RED HORSE Squadron		209	221
	Total	1,520	1.372

13. MAJOR EQUIPMENT AND AIRCRAFT		
TYPE	AUTHORIZED	ASSIGNED
KC-135R	16	16
KC-46A	12	New Mission

1. COMPONENT						2. DATE
AIR FORCE	FY 2	2017 MILITARY CONS	STRUCT	ION PROJE	CT DATA	
RESERVE						FEB 2016
3. INSTALLATION A	ND LOC	ATION	4. PROJ	ECT TITLE		
SEYMOUR JOHNSO	N AIR FO	ORCE BASE, NORTH	KC-46A	ГWO BAY COF	ROSION/FUEL	CELL HANGAR
CAROLINA						
5. PROGRAM ELEMI	ENT	6. CATEGORY	7. PROJ	ECT NUMBER	8. PROJECT	COST (\$000)
52576F		211-111	VKA	G159021	Ģ	90,000
9. COST ESTIMATES						
	ITE	Μ	UM	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIE	ES					62,452
GEN PURPOSE COF	ROSIO	N CONTROL HANGAR	SM	5,875	4,230	(24,851)
GENERAL PURPOS	E FUEL	CELL HANGAR	SM	6,095	3,990	(24,319)
BACK SHOPS AND	ADMIN	ISTRATIVE OFFICES	SM	4,845	2,310	(11,192)
SUSTAINABILITY A	AND EN	ERGY MEASURES	LS			(1,811)
REPAIR AIRFIELD	MARKI	NGS	SM	1,858	150	(279)
SUPPORTING FACIL	ITIES					15,785
COMMUNICATION	S		LS			(1,700)
SITE IMPROVEMEN	NTS		LS			(4,000)
FIRE SUPPRESSION	1		LS			(2,335)
UTILITIES			LS			(1,250)
DEMO EXISTING F.	ACILITI	ES/RAMP	LS			(5,000)
FOUNDATION/SOI	LCOND	ITIONS	LS			(500)
TEMPORARY OFFI	CE SPA	CE	LS			(1,000)
SUBTOTAL						78,237
CONTINGENCY (5%	6)					3,912
TOTAL CONTRACT	COST					82,149
SUPERVISION, INS	PECTIO	N & OVERHEAD (5.7%)				4,682
DESIGN/BUILD – D	ESIGN (COST (4%)				3,129
TOTAL REQUEST						89,961
TOTAL REQUEST (R	OUNDE	2D)				90,000
EQUIPMENT FROM	OTHER	APPROPRIATIONS				(175)
10. DESCRIPTION O	F PROP	OSED WORK: Clear site by	y demolishi	ng existing faci	lities, utilities, a	nd concrete ramp in
the new hangar footpr	int. Cons	struct one aircraft hangar to s	simultaneou	sly accommodat	te one KC-46A	aircraft in each bay.
Construct reinforced c	oncrete f	foundations, steel frame and 1	oof system	, insulated meta	l walls, utilities	and other necessary
work to make a compl	ete and u	useable facility. Includes perso	onnel suppo	ort area, storage	areas for hazard	lous materials, tools,
supplies, and equipme	ent. Hang	gar area will be provided wi	th High Ex	kpansion Foam	fire suppression	and fall protection
system. Also include	d are a	all associated utilities, site	work, con	nmunications s	support, and pa	avement transitions.
Environmental control	s to inclu	ide floor drains connected to	a public sa	nitary sewer sys	stem, oil/water s	eparator, pavements,
parking areas, exterior	lighting	, tencing, and landscaping an	d other sup	port work asso	ciated with the p	project. Remove and
restripe painting on the	e parking	apron for the KC-46A. Proje	ct shall con	nply with antiter	rorism/force pro	tection requirements
identified in the DoD	unified	Facilities Criteria. The comp	leted project	et shall be able	to receive a U.	S. Green Building
Council Leadership in	Energy a	nd Environmental Design (LE.	<u>ED).</u>			
11. REQUIREMENT:	16,815	SM ADEQUATE	: 0 SM	SUE	BSTANDARD: I	16,815 SM
PROJECT: Construct	Two Bay	Corrosion/Fuel Cell Hangar (New Missio	on)	D 2.6	
<u>REQUIREMENT</u> : In	e AF ha	is designated Seymour Johns	on AFB as	Main Operatio	ng Base 3 for 1	the KC-46A Tanker
Aircraft. A single two-	-bay faci	ity properly sized and config	jured to not	ise corrosion co	ontrol, wash rack	operations and fuel
system maintenance is	needed	to accomption the mission. M	inimum fac	inty requirement	its for the corros	sion control function
are an environmental	y contro	lied area to wash aircrait as	he movid	nd space for co	orrosion treating	and repairing, plus
performing allerant ma	d support	rt aquinment: point mixing ar	be provide	a lor a prepara	ation and paint	application area for
facilities and administ	a suppoi	The fuel system bay shall	l contain y	equipment stor	d broathing air	e, personner nygiene
support on-aircraft inc	nections	and renairs. These inspectio	ns require	a controlled en	vironment for a	afety environmental
protection and fuel cor	taminati	on prevention Also a proper	v configure	a controlled ell	rcraft anron is n	ecessary for efficient
movement of assigned	aircraft	on provention. miso, a proper	, comput	a and surped a	i ciuit upion is n	coossing for enforcement
ins , entent of ussigned						

1. COMPONENT AIR FORCE RESERVE

FY 2016 MILITARY CONSTRUCTION PROJECT DATA

5. PROJECT NUMBER

VKAG159021

3. INSTALLATION AND LOCATION:

SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA

4. **PROJECT TITLE:**

KC-46A TWO BAY CORROSION/FUEL CELL HANGAR

<u>CURRENT SITUATION</u>: The KC-46A is a new aircraft replacing the KC-135R models at Seymour Johnson. Existing KC-135R facilities cannot enclose this new weapons system due to its larger size. It is not economically feasible to modify and/or enlarge the existing real property hangars to accommodate the new aircraft. The new aircraft also requires painting of specific sizes that need to be placed before operation as the existing markings are designed for the smaller KC-135R.

<u>IMPACT IF NOT PROVIDED</u>: The 916 ARW will not be able to provide the required maintenance and repair of the new aircraft in support of national defense objectives. Without required striping, the aircraft will be unable to taxi from the runway properly causing potential for aircraft damage and misplacement.

<u>ADDITIONAL:</u> Installation POC: 4 CES/CENP, DSN: 722-7440. This project meets the criteria/scope specified in Air Force Reserve Command Handbook 32-1001, Standard Facility Requirements.

<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 (Reserve) requirements.

FY 2016 MILITARY CONSTRUCTION PROJECT DAT A

2. DATE

RESERVE FEB 2016 **3. INSTALLATION AND LOCATION** SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA 4. PROJECT TITLE 5. PROJECT NUMBER KC-46A TWO BAY CORROSION/FUEL CELL HANGAR VKAG159021 12. SUPPLEMENTAL DATA: A. DESIGN DATA (Estimated) 1. STATUS a. Date Design Started: Mar 2016 b. Parametric estimates have been used to develop project cost. c. Percentage Complete as of January 1, 2016 0% d. Date Design 35% Complete Jul 2016 e. Date Design Complete - (If design-build, construction complete) Dec 2016 2. BASIS a. Standard or Definitive Design - Yes No X . b. Where Design Was Most Recently Used N/A. 3. COST (Total) = c = a + b or d + e(\$000) a. Production of Plans and Specifications (35% design) (4,971)b. All Other Design Costs (Design-build) (3.129)c. Total (8,100)d. Contract (A-E) e. In-house (management) 4. CONSTRUCTION START May 2017 B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER **APPROPRIATIONS:** Fiscal Year Equipment Procuring Appropriated Cost Nomenclature Appropriation Or Requested (\$000) Furniture / Storage Equipment 3740 FY 2018 120 Interior Design Services 3740 FY 2018 80

3740

FY 2018

Communications Equipment

1. COMPONENT						2. DATE
AIR FORCE RESERVE	FEB 2016					
3. INSTALLATION A SEYMOUR JOHNSO CAROLINA	ND LOC N AIR F	ATION ORCE BASE, NORTH	4. PROJ KC-46A	ECT TITLE ADAL BLDG F	OR AGE/FUSEI	AGE TRAINING
5. PROGRAM ELEM 52576F	ENT	6. CATEGORY 171-159	7. PROJ VKA	ECT NUMBER AG159022	8. PROJECT	C OST (\$000) 5,700
9. COST ESTIMATES	5			-	· · · · · · · · · · · · · · · · · · ·	
	ITE	Μ	UM	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITI	ES		~ ~ ~			4,087
ALTER BLDG FOR	KC-46A		SM	1,500	1,735	(2,603)
CUNST COVERED	SIORAG	JE/TRAINING YARD	SM	1,300	1,050	(1,365)
SUSTAINABILITY	AND EN	IERGY MEASURES	LS			(119)
JUTIL ITIES	LITES		IS			900
COMMUNICATION	ZL					(200)
SITE IMPROVEME	NTS		LS			(550)
FOUNDATION/SOI	LCOND	ITIONS	LS			(100)
SUBTOTAL						4,987
CONTINGENCY (5	%)					249
TOTAL CONTRACT	COST					5,236
SUPERVISION, INS	SPECTIC	N & OVERHEAD (5.7%)				298
DESIGN/BUILD – L	DESIGN	COST (4%)				<u> </u>
TOTAL REQUEST		(ח?				5,734 5,700
FOUIPMENT FROM	OTHER	APPROPRIATIONS				(1.075)
10. DESCRIPTION (OF PROF	OSED WORK: Add/Alter th	e interior o	of the building b	v demo/installin	g all necessary walls
and reconfiguring the fuselage trainer cov office/classroom/restro side of building for A including AFFF pond Facilities Criteria. Th objectives addressing building commissionin indoor environmental	interior vered ou com fac GE shop removal is projec : site des ng, mater	layout. Replace hangar door atdoor storage area to ind ilities to allow for mission rec p and Electro/Environmental of . This project will comply wit t will incorporate applicable sign, water use, energy use ials selection, and	and add r clude cond quirements. equipment ith DoD an US Air Fo reduction	roll up doors for crete pavement Seal in existing access. Create co titerrorism/force orce and High Po (per EPAct of	Fuselage Train for loading. hangar doors. I ontiguous traffic protection requ erformance Gree 2005 and CFR	er access. Construct Construct fuselage nstall rollup door on flow around facility irements per Unified en Building (HPGB) Title 10 Part 433),
11. REQUIREMENT	: 3.868 S	M ADEOUATE:	1.068 SM	SI	BSTANDARD:	2.800 SM
<u>PROJECT</u> : ADAL Bu	ilding fo	r AGE/Fuselage training (New	Mission)	50	_~	_,
<u>PROJECT</u> : ADAL Building for AGE/Fuselage training (New Mission) <u>REQUIREMENT</u> : The AF has designated Seymour Johnson AFB as Main Operating Base 3 for the KC-46A Tanker Aircraft. A properly configured aircraft maintenance facility is necessary for efficient maintenance of assigned aircraft. <u>CURRENT SITUATION</u> : The KC-46A is a new aircraft replacing the KC-135R models at Seymour Johnson. ADAL at building 4822 is required for an AGE/Fuselage training facility to provide full mission capability. Space requirements include storage, open training facility, and classrooms. Additional training spaces are required for the additional mission and new aircraft						
IMPACT IF NOT PE	ROVIDE	D: The 916 ARW will not b	e able to p	provide the requi	ired training and	storage of the new
aircraft in support of n	ational de	efense objectives.	0 7440 T	his project man	a the oritoria /	one encoified in Air
ADDITIONAL: Insta Force Reserve Comma	nd Hand	OC: 4 CES/CENP, DSN: 72 book 32-1001 Standard Facili	ty Require	ments	s the criteria/sc	ope specified in Air
<u>JOINT USE CERTIFICATION</u> : This facility can be used by other components on an "as available" b scope of the project is based on Air Force (Reserve) requirements.						basis; however, the
		-				

2. DATE

FY 2016 MILITARY CONSTRUCTION PROJECT DAT A RESERVE FEB 2016 **3. INSTALLATION AND LOCATION** SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA 4. PROJECT TITLE 5. PROJECT NUMBER KC-46A ADAL BLDG FOR AGE/FUSELAGE TRAINING VKAG159022 12. SUPPLEMENTAL DATA: A. DESIGN DATA (Estimated) 1. STATUS a. Date Design Started: Mar 2016 b. Parametric estimates have been used to develop project cost. c. Percentage Complete as of January 1, 2016 0% d. Date Design 35% Complete Jul 2016 e. Date Design Complete - (If design-build, construction complete) Dec 2016 2. BASIS a. Standard or Definitive Design - Yes No X. b. Where Design Was Most Recently Used N/A. 3. COST (Total) = c = a + b or d + e(\$000) a. Production of Plans and Specifications (35% design) (300) b. All Other Design Costs (Design-build) (199) c. Total 499) d. Contract (A-E) e. In-house (management) 4. CONSTRUCTION START May 2017 B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER **APPROPRIATIONS:** Fiscal Year Equipment Procuring Appropriated Cost Nomenclature Appropriation Or Requested (\$000) Furniture / Storage Equipment 3740 FY 2018 40 Interior Design Services 3740 FY 2018 20

3740

FY 2018

Communications Equipment

MR FORCE RESERV FY 2017 MILLITARY CONSTRUCTION PROJECT DATA FEB 2016 3. INSTALLATION AND LOCATION SEYMOUR JOINISON AUR FORCE BASE, NORTH CAROLINA. 4. PROJECT TITLE KC-46A ADAL SQUADRON OPERATIONS FACILITIES 5. ROGGRAM ELEMENT 6. CATEGORY VKAG19025 7. PROJECT NUMBER 8. PROJECT CONT (S000) 2.250 9. COST ESTIMATES 114-753 VKAG19025 8. PROJECT COST (S000) 2.250 9. COST ESTIMATES 114-753 VKAG19025 8. PROJECT COST (S000) 2.250 9. COST ESTIMATES 15. 16.629 9. RENOVATE INTERIOR SM 500 1,884 (942) 0. ONTRUCT ADDITION SUPPORTINGFACILITIES 15. 3.25 (640) SUPPORTINGFACILITIES 15. 3.00 (75) 11712E 15. 3.00 (90) 20470TINNICATIONS 15. 3.00 (90) 11742C 15. 3.00 (90) 2053UEDTOTAL 15. 3.00 (90) 2040CONTINGENCY (5%) 1.23 (90) 2.427 1071AL CONTRACT COST 1.5 3.020 2.427 1071AL RE	1. COMPONENT						2. DATE
3. INSTALLATION AND LOCATION 4. PROJECT TITLE SEYMOUR JOHNSON AR FORCE BASE, NORTH KC-46A ADAL SQUADRON OPERATIONS FACILITIES CAROLINA. 7. PROJECT NUMBER 8. PROJECT COST (\$900) 5. BROGRAM ELEMENT 6. CATEGORY 7. PROJECT NUMBER 8. PROJECT COST (\$900) 9. COST ESTIMATES UM QUANITY UNIT COST COST (\$900) PRIMARY FACILITIES SM 500 1.884 (\$42) OCONSTRUCT ADDITION SM 500 1.884 (\$42) OUNVATEINTERIOR SM 500 1.884 (\$42) CONSTRUCT ADDITION SM 237 2.700 (\$44) SUPPORTING FACILITIES 1.5 325 (\$47) FUNC I.5 9.000 (\$47) SUPPORTING FACILITIES 1.5 (\$47) (\$47) FUNC I.5 9.000 (\$47) (\$47) SUPPORTING SOIL CONDITIONS 1.5 (\$40) (\$40) (\$40) (\$40) SUPERVISION, INSPECTION & OVERHEAD (\$.7%) 1.3	AIR FORCE RESERVE	FEB 2016					
5. PROGRAM ELEMENT 52576F 6. CATEGONY 141-753 7. PROJECT NUMERE VKAG159025 8. PROJECT COST (\$000) 2,250 9. COST ESTIMATES IM QUANTITY UNT COST COST (\$000) PRIMARY FACILITIES IM QUANTITY UNT COST COST (\$000) PRIMARY FACILITIES SM 500 1,884 (942) CONSTRUCT ADDITION SM 2,370 (640) SUST AINABILITY AND ENERGY MEASURES LS (47) SUST AINABILITY AND ENERGY MEASURES LS (35) COMMUNICATIONS LS (47) VITH COST LS (35) FOUNDATION/SOIL CONDITIONS LS (35) FOUNDATION/SOIL CONDITIONS LS (47) SUBTOTAL LS (35) OUNTINCENCY (5%) LS (30) TOTAL CONTRACT COST 2,052 (20) SUBTOTAL CONTRACT COST 2,250 (40) 10. DESCR/PTION OF PROPOSED WORK: Add/Alter interior layout of building 4916 to accommodate new KC-46A (40) 10. DESCR/PTION OF PROPOSED WORK: Add/Alter interior layout of building 4916 to accommodate new KC-46A (40) 10. DESCR/PTION OF PROPOSED WORK: Ad	3. INSTALLATION A SEYMOUR JOHNSO CAROLINA	ND LOC N AIR F	ATION ORCE BASE, NORTH	4. PROJ KC-46A	ECT TITLE ADAL SQUADI	RON OPERATIO	ONS FACILITIES
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 WST/BOT/PTT systems. Construct a 237 SM addition to building 4906 for AFE storage to include NVG/Pelican Packs/Helmets. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria. This project will incorporate applicable US Air Force and High Performance Green Building (HPGB) objectives addressing: site design, water use, energy use reduction (per EPAct of 2005 and CFR Title 10 Part 433), building commissioning, materials selection, and indoor environmental quality. 11. REQUIREMENT: 3,954 SM ADEQUATE: 3,217 SM SUBSTANDARD: 737 SM PROJECT: ADAL Squad Ops Facilities (New Mission) REQUIREMENT: A properly configured squad ops and aircrew flight equipment facility is necessary for efficient maintenance of assigned aircraft. CURRENT SITUATION: The AF has designated Seymour Johnson AFB as Main Operating Base 3 for the KC-46A Tanker Aircraft. Additional required in the boom simulator room. The boom simulator is set up to support the KC-135R training. Additional room required for NVGs, Pelican Packs, and helmets. IMPACT IF NOT PROVIDED: The 916 ARW will not be able to provide adequate training and storage of boom operators. The lack of training would drastically decrease mission capabilities of the new aircraft in support of national defense objectives. ADDITIONAL: Installation POC: 4 CES/CENP, DSN: 722-7440. This project meets the criteria/scope specified in Air Force Reserve Command Handbook 32-1001, Standard Facility Requirements. 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 (Reserve) requirements. 	equipment and efficient	ntly orga	inize squad ops area to maxi	imize total	force integratio	n. Upgrade train	ning areas to accept
 Packs/Helmets. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria. This project will incorporate applicable US Air Force and High Performance Green Building (HPGB) objectives addressing: site design, water use, energy use reduction (per EPAct of 2005 and CFR Title 10 Part 433), building commissioning, materials selection, and indoor environmental quality. 11. REQUIREMENT: 3,954 SM ADEQUATE: 3,217 SM SUBSTANDARD: 737 SM PROJECT: ADAL Squad Ops Facilities (New Mission) REQUIREMENT: A properly configured squad ops and aircrew flight equipment facility is necessary for efficient maintenance of assigned aircraft. <u>CURRENT SITUATION</u>: The AF has designated Seymour Johnson AFB as Main Operating Base 3 for the KC-46A Tanker Aircraft. Additional equipment is required in the boom simulator room. The boom simulator is set up to support the KC-135R training. Additional room required for NVGs, Pelican Packs, and helmets. <u>IMPACT IF NOT PROVIDED</u>: The 916 ARW will not be able to provide adequate training and storage of boom operators. The lack of training would drastically decrease mission capabilities of the new aircraft in support of national defense objectives. <u>ADDITIONAL</u>: Installation POC: 4 CES/CENP, DSN: 722-7440. This project meets the criteria/scope specified in Air Force Reserve Command Handbook 32-1001, Standard Facility Requirements. <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 (Reserve) requirements. 	WST/BOT/PTT system	ms. Con	struct a 237 SM addition	to building	g 4906 for AF	E storage to ir	nclude NVG/Pelican
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addressing: site design, water use, energy use reduction (per EPACIO 2005 and CFR Title 10 Part 455), building commissioning, materials selection, and indoor environmental quality. 11. REQUIREMENT: 3,954 SM ADEQUATE: 3,217 SM SUBSTANDARD: 737 SM <u>PROJECT</u> : ADAL Squad Ops Facilities (New Mission) <u>REQUIREMENT</u> : A properly configured squad ops and aircrew flight equipment facility is necessary for efficient maintenance of assigned aircraft. <u>CURRENT SITUATION</u> : The AF has designated Seymour Johnson AFB as Main Operating Base 3 for the KC-46A Tanker Aircraft. Additional equipment is required in the boom simulator room. The boom simulator is set up to support the KC- 135R training. Additional room required for NVGs, Pelican Packs, and helmets. <u>IMPACT IF NOT PROVIDED</u> : The 916 ARW will not be able to provide adequate training and storage of boom operators. The lack of training would drastically decrease mission capabilities of the new aircraft in support of national defense objectives. <u>ADDITIONAL</u> : Installation POC: 4 CES/CENP, DSN: 722-7440. This project meets the criteria/scope specified in Air Force Reserve Command Handbook 32-1001, Standard Facility Requirements. <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 (Reserve) requirements.	Criteria. This project	will inco	rporate applicable US Air Fo	orce and Hi	gh Performance	Green Building	g (HPGB) objectives
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 In RECOMMENT: System in the contract of the project in the project in the project is based on Air Force (Reserve) requirements. In REQUIREMENT: A property configured squad ops and aircrew flight equipment facility is necessary for efficient maintenance of assigned aircraft. <u>CURRENT SITUATION</u>: The AF has designated Seymour Johnson AFB as Main Operating Base 3 for the KC-46A Tanker Aircraft. Additional equipment is required in the boom simulator room. The boom simulator is set up to support the KC-135R training. Additional room required for NVGs, Pelican Packs, and helmets. <u>IMPACT IF NOT PROVIDED</u>: The 916 ARW will not be able to provide adequate training and storage of boom operators. The lack of training would drastically decrease mission capabilities of the new aircraft in support of national defense objectives. <u>ADDITIONAL</u>: Installation POC: 4 CES/CENP, DSN: 722-7440. This project meets the criteria/scope specified in Air Force Reserve Command Handbook 32-1001, Standard Facility Requirements. <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 (Reserve) requirements. 	11 REOUREMENT	3 954 S		3 217 SM	SI		737 SM
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CURRENT SITUATION: The AF has designated Seymour Johnson AFB as Main Operating Base 3 for the KC-46A Tanker Aircraft. Additional equipment is required in the boom simulator room. The boom simulator is set up to support the KC- 135R training. Additional room required for NVGs, Pelican Packs, and helmets. <u>IMPACT IF NOT PROVIDED</u> : The 916 ARW will not be able to provide adequate training and storage of boom operators. The lack of training would drastically decrease mission capabilities of the new aircraft in support of national defense objectives. <u>ADDITIONAL</u> : Installation POC: 4 CES/CENP, DSN: 722-7440. This project meets the criteria/scope specified in Air Force Reserve Command Handbook 32-1001, Standard Facility Requirements. <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 (Reserve) requirements.	maintenance of assigne	d aircraf	t.				
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<u>IMPACT IF NOT PROVIDED</u> : The 916 AKW will not be able to provide adequate training and storage of boom operators. The lack of training would drastically decrease mission capabilities of the new aircraft in support of national defense objectives. <u>ADDITIONAL</u> : Installation POC: 4 CES/CENP, DSN: 722-7440. This project meets the criteria/scope specified in Air Force Reserve Command Handbook 32-1001, Standard Facility Requirements. <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 (Reserve) requirements.	135R training. Additio	nal room	required for NVGs, Pelican Particular Partic	acks, and n	elmets.	ining and storag	a of hoom operators
objectives. <u>ADDITIONAL</u> : Installation POC: 4 CES/CENP, DSN: 722-7440. This project meets the criteria/scope specified in Air Force Reserve Command Handbook 32-1001, Standard Facility Requirements. <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 (Reserve) requirements.	The lack of training	<u>uould</u> d	<u>7</u> : The 910 AKW will not up a restically decrease mission c	anahilities	of the new air	ming and storag	of national defense
ADDITIONAL: Installation POC: 4 CES/CENP, DSN: 722-7440. This project meets the criteria/scope specified in Air Force Reserve Command Handbook 32-1001, Standard Facility Requirements. 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 (Reserve) requirements.	objectives.	would a	lastically decrease mission e	apaonnes	Of the new and	lan in support	Of national defense
Force Reserve Command Handbook 32-1001, Standard Facility Requirements. 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 (Reserve) requirements.	ADDITIONAL: Instal	llation P	OC: 4 CES/CENP, DSN: 72	2-7440. TI	nis project meet	s the criteria/sc	ope specified in Air
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 (Reserve) requirements.	Force Reserve Comma	nd Hand	book 32-1001, Standard Facili	ty Requirer	nents.		1 1
scope of the project is based on Air Force (Reserve) requirements.	JOINT USE CERTIF	ICATIO	<u>N</u> : This facility can be used	by other c	omponents on a	n "as available"	basis; however, the
	scope of the project is	based on	Air Force (Reserve) requireme	ents.			

1. COMPONENT					2. DATE
AIR FORCE RESERVE	FY 2016 MILITA	ARY CONSTRUCT	ION PROJECT D	AT A	FEB 2016
3. INSTALLATION AN	ND LOCATION			-	
SEYMOUR JOHNSO	N AIR FORCE BASE,	NORTH CAROLINA			
4. PROJECT TITLE				5. PROJ	ECT NUMBER
KC-46A ADAL SQUA	ADRON OPERATIONS	S FACILITIES			VKAG159025
12. <u>SUPPLEMENTA</u>	ALDATA:				
A. DESIGN DATA (Estimated)				
1. STATUS					
a. Date Desig	gn Started:				Mar 2016
b. Parametric	e estimates have been us	ed to develop project co	ost.		
c. Percentage	e Complete as of Januar	y 1, 2016			0%
d. Date Desig	gn 35% Complete				Jul 2016
e. Date Desig	gn Complete - (If design	n-build, construction co	mplete)		Dec 2016
 BASIS a. Standard o b. Where De 	or Definitive Design - Yo sign Was Most Recently	es <u>No X</u> . y Used <u>N/A</u> .			
3. COST (Total)) = c = a + b or d + e		(\$000)		
a. Productiob. All Otherc. Totald. Contract (e. In-house (n of Plans and Specifica Design Costs (Design-b (A-E) (management)	tions (35% design) puild)		(<u>1</u> (<u>1</u> (10_) 78_) 88_))
4. CONSTRUCT	ΓΙΟΝ START		May 201	7	
B. EQUIPMENT ASS APPROPRIATIO Equipma <u>Nomencla</u> Furniture / Storag Interior Design Communications	SOCIATED WITH THI NS: ent <u>ature</u> e Equipment 1 Services 5 Equipment	AS PROJECT WHICH W Procuring <u>Appropriation</u> 3740 3740 3740 3740	WILL BE PROVIDEI Fiscal Year Appropriated <u>Or Requestec</u> FY 2018 FY 2018 FY 2018 FY 2018	D FROM (<u>1</u>	OTHER Cost <u>(\$000)</u> 100 20 40

l

1. COMPONE	TT FY 2017 GUARD A	ND RESE	RVE	2. DATI	£		
AIR FORCE RESERVE	Fl	EB 2016					
3. INSTALLA	FION AND LOCATION			4. AREA	A CONSTR		
PITTSBURGH	I AIR RESERVE STATION. PENNSYLVAN	ΠA		COS	LOST INDEX 1.06		
5. FREQUENC	CY AND TYPE UTILIZATION						
Daily use by ci	vilian, technician and AGR force. One unit tra	ining assembly	y per month, 15 d	ays annual fiel	d training per		
	TREAT ADD DECEDUE INCLASS A PLONG A						
6. OTHER AC 171 ARW (AN	G), Pittsburgh International Airport	WITHIN 15 M	ILE KADIUS				
7. PROJECTS	REQUESTED IN THIS PROGRAM						
CATEGORY			COST	DESIGN	DESIGN		
CODE	PROJECT TITLE	SCOPE	<u>(\$000)</u>	START	COMPLETE		
211-111	C-17 CONSTRUCT TWO BAY	54,000 SM	54,000	Mar 2016	Jan 2017		
121 122	CORROSION/FUELHANGAR	4 01	22 800	Mar 2016	Ian 2017		
121-122	SYSTEM	4 OL	22,800	Wiai 2010	Jail 2017		
113-321	C-17 CONSTRUCT / OVERLAY	17,600 SM	8,200	Mar 2016	Jan 2017		
8. STATE RES	SERVE FORCES FACILITIES BOARD RECO	MMENDATIC	DN				
Not reviewed -	- New Mission driven by AF Force Manageme	nt decision					
9. LAND ACQ	UISITION REQUIRED			(Number	• of Acres)		
	NONE						
10. PROJECTS	S PLANNED IN NEXT FOUR YEARS						
CATEGORY				COST			
CODE	PROJECT TITLE		SCOPE	<u>(\$000)</u>	YEAR		
113-321	REPAIR AIRCRAFT APRON/TAXIWAYS	5	87,500 SM	21,000	2017		
171-212	RENOVATE B129 FOR C-17 FLIGHT		9,360 SF	3,311	2017		
211-152	RENOVATE B417 FOR C-17 BACKSHOP	PS	17.030 SF	4.685	2017		
211 102		5	17,000 51	1,000	2017		
RPM BACKLO	OG AT THIS INSTALLATION (\$000):						
15,462							

1. COMPONENT AIR FORCE RESERVE

FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION

2. DATE

FEB 2016

3. INSTALLATION AND LOCATION PITTSBURGH AIR RESERVE STATION, PENNSYLVANIA 11. PERSONNEL STRENGTH AS OF JAN 2015

	PERMANENT (ARTs, AGRs, Non-ART Civilians)				GUARD/		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	310	31	176	103	947	166	490
ACTUAL	307	28	171	108	998	170	828

12. RESERVE UNIT DATA

		STRENGTH						
UNIT DESIGNATION		AUTHORIZED	ACTUAL					
911 Airlift Wing		53	75					
911 Operations Group		10	9					
911 Operations Support Squadron		40	48					
758 Airlift Squadron		112	100					
911 Aeromedical Evacuation Squadron		72	74					
911 Maintenance Group		37	27					
911 Maintenance Squadron		87	173					
911 Aircraft Maintenance Squadron		135	68					
911 Mission Support Group		13	9					
911 Logistics Readiness Squadron		78	85					
911 Contracting Flight		10	9					
911 Force Support Squadron		79	90					
911 Communications Squadron 911		45	60					
Civil Engineering Squadron		86	92					
911 Aeromedical Staging Squadron		144	153					
32 Aerial Port Squadron		126	103					
911 Security Forces Squadron		131	130					
	Total	1,258	1,305					

13. MAJOR EQUIPMENT AND AIRCRAFT		
<u>TYPE</u>	<u>AUTHORIZED</u>	ASSIGNED
С-130Н	8	8
C-17	8	8 (New Mission)
		· · · · · · · · · · · · · · · · · · ·

1. COMPONENT						2. DATE		
AIR FORCE RESERVE	FY 2	FEB 2016						
3. INSTALLATION A	ND LOC	ATION	4. PROJI	ECT TITLE		-		
PITTSBURGH AIR R	ESERVE	E STATION,	C-17 CON	NSTRUCT TWO	DBAY CORROS	SION/FUEL		
PENNSYLVANIA			HANGAH	2				
5. PROGRAM ELEM	ENT	6. CATEGORY	7. PROJI	ECT NUMBER	8. PROJECT	COST (\$000)		
52576F		211-111	JLS	S169001		54,000		
9. COST ESTIMATES	5							
	ITE	Μ	UM	QUANTITY	UNIT COST	COST (\$000)		
PRIMARY FACILITI	ES					39,010		
GEN PURPOSE CO	RROSIO	N CONTROL HANGAR	SM	4,830	4,143	(20,009)		
GEN PURPOSE FU	EL CELL	HANGAR	SM	4,830	3,292	(15,900)		
CORROSION CONTROL-FIBERGLASS/COMP SHOP			SM	797	2,799	(2,231)		
FUEL SYSTEM SHOP			SM	302	2,239	(676)		
SUSTAINABILITY	AND EN	IERGY MEASURES	LS			(194)		
SUPPORTING FACIL	LITIES					(9,753)		
COMMUNICATION	NS		LS			(1,968)		
SITE IMPORVEME	NTS		LS			(3,513)		
FIRE SUPPRESSIO	N		LS			(2,347)		
UTILITIES			LS			<u>(1,925)</u>		
SUBTOTAL	0/)					48,763		
CONTINGENCY (5	%) COST					<u> </u>		
SUDEDVISION IN	DECTIO	N & OVERHEAD (5.7%)				51,201 2 018		
JUPER VISION, INC.	PECHO	$\Lambda \propto OVERHEAD(3.7\%)$				<u> </u>		
TOTAL REQUEST		ות				54,000		
10 DESCRIPTION	OF P	ROPOSED WORK Const	uct two-h	av corrosion	control / m	ultinurnose and fuel		
cell/multipurpose airc	raft hang	ar to accommodate one C-1	7 aircraft i	n each bay and	associated bac	k shops in the hangar.		
Construct reinforced	concrete	foundations, steel frame and	roof system	n. insulated me	tal walls, utiliti	es and other necessary		
work to make a comp	lete and u	iseable facility. Includes pers	onnel supp	ort area, storag	e areas for haza	rdous materials, tools,		
supplies, and equipme	nt. Hang	ar area will be provided with l	High Expansion Foam fire suppression and fall protection system.					
Also included are all	associate	d utilities, site work, commu	nications support, and a fire pump with 500,000 gallon capaci					
underground water st	orage res	ervoir. Environmental control	s to includ	le floor drains o	connected to a s	sanitary sewer system,		
pavements, parking a	reas, ext	erior lighting, fencing, and la	indscaping	and other supp	ort work associ	ated with the project.		
Project shall comply	with an	ntiterrorism/force protection	requirement	ts identified in	the DoD unif	ied Facilities Criteria.		
The completed proje	ct shall	be able to receive a U.S. C	Green Build	ling Council L	eadership in Er	nergy and		
Environmental Design	(LEED)	certification.						
11. REQUIREMENT	: 10,759	SM ADEQUATE:	0 SM	SU	BSTANDARD:	10,759 SM		
PROJECT: Construct	two bay	corrosion/fuel cell hangar with	specified b	ack shops (New	Mission)			
REQUIREMENT: Th	ne AF ha	as decided to convert the ex	isting C-13	30 mission at 1	Pittsburgh ARB	to the C-17 Mobility		
Aircraft. A single tw	o-bay fa	cility properly sized and cor	ifigured to	house corrosic	on control, wash	n rack operations, fuel		
system maintenance,	and ger	ieral maintenance in both b	ays is req	uired to accom	plish this miss	ion. Minimum facility		
requirements for the	COTTOS10	n control function are an e	nvironment	ally controlled	area to wash a	arcraft, and space for		
corrosion treatment an	for aire	and perform aircraft mainten	ance painti	ng. Space must	also be provide	a for a preparation and		
storage: personnel by	ugiono fa	cilities and administrative a	equipilient,	fuel system b	av shall contai	n vapor exhaust and		
breathing air supply	equipme	ent to support on-aircraft in	spections	and repairs T	hese inspections	s require a controlled		
environment for safety	equipine	mental protection and fuel cont	amination r	prevention.	inspection.	s require a controlled		
CURRENT SITUAT	ON: The	e C-17 is a new mission aircr	aft replacin	g the C-130H	models at Pittsb	urgh ARS. Existing C-		
130H facilities canno	t enclose	this new weapons system d	ue to its la	rger size. It is	not economica	lly feasible to modify		
and/or enlarge the existing real property hangars to accommod				aircraft.				
IMPACT IF NOT PE	ROVIDE	<u>D</u> : The 911 ARW will not be	able to pr	ovide the requi	red maintenance	and repair of the new		
aircraft in support of n	ational de	efense objectives.	-	-				

FY 2016 MILITARY CONSTRUCTION PROJECT DATA

3. INSTALLATION AND LOCATION:

PITTSBURGH AIR RESERVE STATION, PENNSYLVANIA

4.	PROJECT TITLE:	5. PROJECT NUMBER
	C-17 CONSTRUCT TWO BAY CORROSION/FUEL HANGAR	JLSS169001

<u>ADDITIONAL</u>: Installation POC: DSN 277-8573. This project meets the criteria/scope specified in Air Force Reserve Command Handbook 32-1001, Standard Facility Requirements. This facility project is a candidate for Comprehensive Interior Design (CID). Equipment from other appropriations: 1,007K for furnishings and communications. New Work: 10,759 SM = 115,830SF.

<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 (Reserve) requirements.

2. DATE

AIR FORCE RESERVE	FY 2017 MILI	TARY CONSTRUCTIO	ON PROJECT DA	AT A	FEB 2016
. INSTALLATION AN	ND LOCATION				
PITTSBURGH AIR R	ESERVE STATION	I, PENNSYLVANIA			
4. PROJECT TITLE				5. PROJ	IECT NUMBER
C-17 CONSTRUCT T	WO BAY CORROS	ION/FUEL HANGAR			JLSS169001
2. <u>SUPPLEMENTA</u>	LDATA:				
A. DESIGN DATA (Estimated)				
1. STATUS					
a. Date Desig	gn Started:				Mar 2016
b. Parametric	estimates have beer	used to develop project cos	t.		
c. Percentage	Complete as of Janu	uary 1, 2015			0%
d. Date Desig	gn 35% Complete				Jul 2016
e. Date Desig	gn Complete - (If des	sign-build, construction com	plete)		Dec 2016
2. BASIS					
a. Standard o b. Where Des	r Definitive Design - sign Was Most Rece	Yes No X. ntly Used $\underline{N/A}$.			
3. COST (Total)	b = c = a + b or d + e		(\$000)		
a. Productionb. All Otherc. Totald. Contract (e. In-house (n of Plans and Specir Design Costs (Desig A-E) management)	fications (35% design) n-build)		(<u>7</u> : (<u>2</u> , (<u>2</u> ,	58_) 165) 993))
4. CONSTRUCT	TION START		May 2017	7	
B. EQUIPMENT ASS	SOCIATED WITH 1	THIS PROJECT WHICH W	ILL BE PROVIDEI	D FROM	OTHER
APPROPRIATIO	NS:		Fiscal Voor		
Equipme Nomencla	ent ture	Procuring Appropriation	Appropriated Or Requested	1	Cost (\$000)
Furniture / Storage	e Equipment	3740	FY 2018	-	0
Interior Design	Services	3740	FY 2018		0

3740

Communications Equipment

1,968

FY 2018

1. COMPONENT						2. DATE			
AIR FORCE	FY	2017 MILITARY CONS	TRUCT	ION PROJE	CT DATA				
RESERVE						FEB 2016			
3. INSTALLATION A	ND LOC	ATION	4. PROJECT TITLE						
PITTSBURGH AIR R	RESERVI	E STATION,	C-17 ADAL FUEL HYDRANT SYSTEM						
PENNSYLVANIA									
5. PROGRAM ELEM	ENT	6. CATEGORY	7. PROJ	ECT NUMBER	8. PROJECT	8. PROJECT COST (\$000)			
52576F		121-122	JLSS169002		22,800				
9. COST ESTIMATES	S								
	ITE	Μ	UM	QUANTITY UNIT COST		COST (\$000)			
PRIMARY FACILITI	ES					6,140			
HYDRANT PITS &	PIPING		LS			(5,640)			
SUSTAINABILITY	AND EN	IERGY MEASURES	LS			(500)			
COMMUNICATION	NS		LS			(1,968)			
SUPPORTING FACIL	LITIES					14,381			
UTILITIES & PUM	PS		LS			(10,981)			
TANKS (5,000 BBL	.)		LS			(3,400)			
SUBTOTAL	·					20,521			
CONTINGENCY (5	%)					1,026			
TOTAL CONTRACT	COST					21,547			
SUPERVISION, INS	SPECTIC	N & OVERHEAD (5.7%)				1,228			
TOTAL REQUEST						22,775			
TOTAL REQUEST (I	ROUNDE	ED)				22,800			
10. DESCRIPTION	OF PRO	POSED WORK: Add/Alter l	Fuel Hydra	nt System for	C-17 Mission.	Construct a pressurized			
hydrant fuel system v	with 4 hy	drants outlets, converting two	o 2,500 bar	rel above grour	nd bulk fuel tan	ks to operational tanks,			
and constructing one	5,000 b	arrel bulk fuel storage tanks.	Construct	an 1800 GPM	pump house to	accommodate hydrant			
pumps, fuel filters and	d separat	ors. Construct hydrant hose tr	uck checko	ut and product	recovery system	and a transfer pipeline			
with pig launcher and	1 receive	r. Work also includes all nece	essary pump	ps, valves, filter	rs, control syster	ns, cathodic protection,			
fire protection, emerg	ency gen	erator and enclosure, utility an	nd sewer co	nnections, acces	s pavements, fer	ncing, and security			
lighting. Site preparat	ion and i	mprovements are included.							
11. REQUIREMENT	: 4 Outle	ts (OL) ADEQUAT	TE: 0 OL		SUBSTANDAR	AD: 4 OL			
PROJECT: Add/Alter	r Fuel Hy	drant System (New Mission)							
<u>REQUIREMENT</u> : TI	he 911th	AW requires on-site hydrant	fueling ar	nd de-fueling ca	pability to supp	port mission generation			
requirements associat	ted with	the unit conversion to C-17	aircraft. 4	hydrant posit	ions are require	ed to support the new			
mission aircraft. In oi	rder to p	rovide adequate operational ca	apacity to the	he 911th AW ra	imp, additional	on-site storage capacity			
and pumps will be re	quired.	the 911th AW hydrant system	and assoc	lated operationa	l storage will be	e connected to the main			
installation bulk fuel s	torage ar	ea by transfer pipelines.	. :	4	h. f	increases of the C 17			
Addition of fuel hude	<u>ION</u> : Ex	is a subscript the full the C_{1}	s inadequa	te to support t	ne luenng requ	al system at Dittsburgh			
Addition of fuel light	ant syste	in is required to fuel the C-1		currently there	is no nyurant ru	ier system ät Fittsburgn			
IMPACT IF NOT PL	C. 20VIDE	D. The 011 ARW will not be	able to m	ovide the requi	red maintenance	and repair of the new			
aircraft in support of n	ational d	<u>efense objectives</u>		ovide the requi		and repair of the new			
ADDITIONAL: Inst	allation F	POC° DSN 277-8573 This r	project mee	ets the criteria/s	cone specified	in Air Force Reserve			
Command Handbook	32-100	1 Standard Facility Require	ments Thi	s facility proje	ct is a candida	te for Comprehensive			
Interior Design (CID). Equip	ment from other appropriation	ons: \$1.007	K for furnishin	gs and commu	nications. New Work:			
10.759 SM = 115.830	SF.				5 ⁵ 4 11 4 4 5 1 11 11				
JOINT USE CERTIN	FICATIO	N: This facility can be used	by other	components on	an "as availabl	e" basis; however, the			
scope of the project is	based on	Air Force (Reserve) requireme	ents.	1		, , ,			
1 1 0									

1. COMPONENT					2. DATE		
AIR FORCE	FY 2017 MILITA	AT A					
3 INSTALLATION AN					FEB 2016		
PITTSBURGH AIR R	ESERVE STATION. PF	NNSYLVANIA					
4. PROJECT TITLE				5. PROJ	IECT NUMBER		
C-17 ADAL FUEL HY	DRANT SYSTEM				JLSS169002		
12. SUPPLEMENTA	<u>ALDATA</u> :						
A. DESIGN DATA ()	Estimated)						
1. STATUS							
a. Date Desig		Mar 2016					
b. Parametric	estimates have been use	ed to develop project of	cost.				
c. Percentage	Complete as of January	1, 2015			0%		
d. Date Desig	d. Date Design 35% Complete						
e. Date Desig	gn Complete - (If design-	-build, construction co	omplete)		Dec 2016		
2. BASIS							
a. Standard o b. Where Des	r Definitive Design - Yes sign Was Most Recently	s <u>No X</u> . Used <u>N/A</u> .					
3. COST (Total)	c = c = a + b or d + e		(\$000)				
a. Productionb. All Otherc. Total	n of Plans and Specificat Design Costs (Design-bı	ions (35% design) 1ild)		(3) (2 (1,	<u>18.9)</u> 911_) 230)		
d. Contract (e. In-house (A-E) management)			())		
4. CONSTRUCT	TON START		May 201	7			
B. EQUIPMENT ASS APPROPRIATIO	SOCIATED WITH THIS	S PROJECT WHICH	WILL BE PROVIDE	D FROM	OTHER		
	•		Fiscal Year				
Equipme	ent	Procuring	Appropriated	1	Cost		
<u>Nomencla</u> Furniture / Storage	<u>ture</u> e Fauinment	Appropriation 3740	Or Requested FV 2018	<u>a</u>	<u>(\$000)</u> 0		
Interior Design	Services	3740	FY 2018		0		
Communications	Equipment	3740	FY 2018		100		

1. COMPONENT						2. DATE		
AIR FORCE RESERVE	AIR FORCE RESERVE FY 2017 MILITARY CONSTRUCTION PROJECT DATA							
3. INSTALLATION A PITTSBURGH AIR R PENNSYLVANIA	ND LOC ESERVI	ATION E STATION,	4. PROJECT TITLE C-17 CONST/OVERLAY TAXIWAY AND APRON					
5. PROGRAM ELEM 52576F	ENT	6. CATEGORY 113-321	7. PROJ I JLS	ECT NUMBER S169003	8. PROJECT (C OST (\$000) 8,200		
9. COST ESTIMATES	5							
	ITE	M	UM	OUANTITY	UNIT COST	COST (\$000)		
PRIMARY FACILITI	ES					7.059		
CONCRETEPAVE	MENT		SM	17,600	(5,139)			
FLEXIBLE PAVEMENT			SM	6,400	300	(1,920)		
SUPPORTING FACILITIES						304		
SITE IMPROVEME	NTS		LS			(304)		
SUBTOTAL						7,363		
CONTINGENCY (5	%)					368		
TOTAL CONTRACT	COST					7,731		
SUPERVISION, INS	PECTIC	N & OVERHEAD (5.7%)				441		
TOTAL REQUEST						8,172		
TOTAL REQUEST (F	OUNDE	ED)				8,200		
10. DESCRIPTION (OF PRO	POSED WORK: Construct 1	7,600 SM	(21,100 SY) of	f concrete paver	ment and 6,400 SM		
(7,700 SY) flexible p	avement.	The pavement profile is sugg	gested to co	onsist of the foll	lowing layers: 10	5 inches of Portland		
Cement Concrete (PC	C), 6 inc	hes of gravel consisting of 1-i	nch or less	diameter rock,	and 18 inches of	f lime stabilized soil		
as defined in design,	or 16 inc	hes of asphaltic concrete (AC)), 6 inches	of gravel consis	ting of 1-inch or	r less diameter rock,		
and 18 inches of lime	stabilized	l soil as defined in design. Pro	ovide storm	drainage, stripe	taxi lanes, seal j	oints. The project		
will comply with DoD	antiterro	rism force protection requirement	ents per Un	ified Facilities C	riteria.			
11. REQUIREMENT:	24,000	SM ADEQUATE:	71,500 SM	SU	BSTANDARD: 2	24,000 SM		
PROJECT: Construct	/ Overlag	Taxi-Way and Apron (New M	Mission)					
REQUIREMENT: Ac	lditional	ramp space is required to par	rk and oper	rate 8 permaner	ntly assigned C-1	17 aircraft and have		
sufficient stand-off for	safe ope	erations with other airframe an	d maintena	nce vehicles due	e to the replacem	ent of 8 assigned C-		
130 aircraft at Pittsbur	gh ARS.							
CURRENT SITUATI	<u>ON</u> : The	e AF has designated Pittsburg	h ARS as I	Main Operating	Base for the C-	17 aircraft replacing		
the C-130 aircraft. Ex	isting ap	oron and taxiway pavements v	vill not acc	ommodate the (C-17 aircraft. Ad	ldition of apron and		
taxiway pavements is 1	necessary	for C-17 aircraft.						
IMPACT IF NOT PR	OVIDE	<u>D</u> : The 911 ARW will not be	e able to m	eet mission nee	ds of the new a	ircraft in support of		
national defense objec	tives. Ex	isting ramp and taxiway pavem	nents will no	ot accommodate	new C-17 missic	on.		
ADDITIONAL: Insta	llation P	OC: DSN 277-8573. This pr	oject meets	s the criteria/sco	ope specified in	Air Force Reserve		
Command Handbook	32-1001,	Standard Facility Requirement	S.					
JOINT USE CERTIF	ICATIO	<u>N</u> : This facility can be used	by other co	omponents on a	n "as available"	basis; however, the		
scope of the project is	based on	Air Force (Reserve) requireme	ents.					

2. DATE

RESERVE	FY 2017 MILIT	ARY CONSTRUCT	ION PROJECT D	ATA	FEB 2016
3. INSTALLATION AN	D LOCATION				
PITTSBURGH AIR RI	ESERVE STATION, P	PENNSYLVANIA			
4. PROJECT TITLE				5. PROJ	ECT NUMBER
C-17 CONST/OVERL	AY TAXIWAY & AP	RON			JLSS169003
12. <u>SUPPLEMENTA</u>	<u>LDATA</u> :				
A. DESIGN DATA (F	Estimated)				
1. STATUS					
a. Date Desig	n Started:				Mar 2016
b. Parametric	estimates have been us	sed to develop project co	ost.		
c. Percentage	Complete as of Januar	ry 1, 2015			0%
d. Date Desig	n 35% Complete				Jul 2016
e. Date Desig	n Complete - (If desig	n-build, construction co	mplete)		Dec 2016
2. BASIS					
a. Standard of b. Where Des	r Definitive Design - Y ign Was Most Recentl	es <u>No X</u> . 1y Used <u>N/A</u> .			
3. COST (Total)	= c = a + b or d + e		(\$000)		
 a. Production b. All Other I c. Total d. Contract (<i>A</i> e. In-house (r 	1 of Plans and Specifica Design Costs (Design- A-E) management)	ations (35% design) build)		(<u>114</u> (<u>3</u> (<u>44</u>) (<u>4.8)</u> 28) 2.8))
4. CONSTRUCT	ION START		May 201	7	
B. EQUIPMENT ASS	OCIATED WITH TH	IS PROJECT WHICH V	WILL BE PROVIDE	D FROM (OTHER
AFEKULKIATIO	۲ D .		Fiscal Year		
Equipme	nt	Procuring	Appropriated	l	Cost
Nomenclat	ure	Appropriation	Or Requeste	<u>d</u>	<u>(\$000)</u>
Furniture / Storage	Equipment	3740	FY 2018		0
Interior Design	Services	3740	FY 2018		0
Communications	Equipment	3740	FY 2018		0

DEPARTMENT OF THE AIR FORCE AIR FORCE RESERVE MILITARY CONSTRUCTION PROGRAM JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 2017

APPROPRIATION: MILITARY CONSTRUCTION, AIR FORCE RESERVE

PROGRAM 341.020 UNSPECIFIED MINOR CONSTRUCTION \$1,500,000

PART I - PURPOSE AND SCOPE

The funds requested for unspecified minor construction will finance new construction projects having cost estimates less than \$2,000,000.

PART II - JUSTIFICATION OF FUNDS REQUESTED

The funds requested for unspecified minor construction will finance unforeseen projects generated during the year and are necessary to support mission requirements.

1. COMPONENT	FY 20	017 MILITARY CONS	STRU	CTI	ON PI	ROJE	CT DA	ATA	2.	DATE
AIR FORCE RESERVE									-	FEB 2016
3. INSTALLATION	AND LOO	CATION		4. P	ROJEC	T TITL	E			
VARIOUS LOCATIONS UNSPECIFIED MINOR CONSTRUCT							JCT	ION		
5. PROGRAM ELE	EMENT	6. CATEGORY CODE	7. PF	ROJE		IBER	8. PR	OJECT (COS	Т (\$000)
52576F		962-000]	PAYZ	217034	1			1,50	0
		9. COS	T ESTI	MATE	S					
		ITEM			U/M	QUA	ΝΤΙΤΥ	UNIT COS	r T	COST (\$000)
UNSPECIFIED SUBTOTAL TOTAL CONTI TOTAL REQUI	MINOR RACT C EST	CONSTRUCTION			LS	-		-		<u>1,500</u> 1,500 1,500 1,500
10. Description	of Propo	sed Construction:								
11. REQUIREM	ENT: A	s required.								

<u>REQUIREMENT</u>: This appropriation provides a lump sum amount for unspecified minor construction projects, not otherwise authorized by law, having a funded cost less than \$2,000,000. Work includes construction, alteration or conversion of temporary facilities in accordance with Title 10, USC 18233 and 18233a. These projects are not now identified but are expected to arise in FY17. <u>IMPACT IF NOT PROVIDED</u>: No means to accomplish exigent projects costing less than \$2,000,000 will exist, severely degrading the ability of the Air Force Reserve to efficiently and effectively address unforeseen facility modifications, alteration and conversion requirements.

SECTION 4

PLANNING AND DESIGN

1. COMPONENT	FY	2017 MILITARY CONSTR	UCTIO	ON PH	ROJEC	T DAT	A		2. D	ATE
AIR FORCE	l									
RESERVE	l								FI	EB 2016
3. INSTALLATION	AND LO	CATION		4. F	PROJEC	T TITL	E			
VARIOUS LOCAT	IONS			PLA	NNINC	J AND	DESIG	N		
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. PI	ROJE		IBER	8. PR	OJECT	cos	т (\$000)
52576F		961-000		PAYZ	Z 17031	3			4,50	00
		9. COS	T ESTI	ΜΑΤΕ	S					
		ITEM			U/M	QUAI	ντιτγ	UN COS	IT ST	COST (\$000)
PLANNING AN	VD DES	IGN			LS	-		_		4,500
SUBTOTAL										4,500
TOTAL CONTI	RACT C	COST								4,500
TOTAL REOUI	EST									4,500
TOTALICEZO	201									1,200
10 Description	of Prop	osed Construction.						1		

11. **REQUIREMENT:** As required.

<u>PROJECT</u>: Planning and Design.

<u>REQUIREMENT</u>: Funds for architectural and engineering services and construction provide for the completed design of facilities and evaluation of designs in terms of technical adequacy and estimated costs. In addition, these funds are required to prepare site surveys, develop master plans, working drawings, specifications, project planning reports, and designs required for those construction projects included in the Air Force Reserve (AFR) Military Construction (MILCON) Program. The advanced age and continued deterioration of the AFR physical plant and infrastructure have generated numerous facility requirements, requiring these architectural and engineering services for design. In addition, there are numerous new mission bed-down projects that received no previous planning and design funds. It is essential the AFR be funded at the requested level to ensure operational readiness is not hampered or degraded due to inadequate facilities.

<u>IMPACT IF NOT PROVIDED</u>: Continued design on this fiscal year program, as well as future year MILCON programs will be impossible.

SECTION5

FUTURE YEARS DEFENSE PROGRAM

DEPARTMENT OF THE AIR FORCE AIR FORCE RESERVE MILITARY CONSTRUCTION PROGRAM FUTURE YEARS MILITARY CONSTRUCTION PROGRAM (\$000)

FY	State	Base	Project	Туре	Foot print	РА
18	NC	Seymour Johnson AFB	KC-46A ADAL Alt Mission Equip Storage	New Mission	New	6,400
18	FL	Patrick AFB	Construct Guardian Angel Facility	Current Mission	New	25,000
18	MA	Westover ARB	Construct Indoor Small Arms Range	Current Mission	New	9,200
18	UT	Hill AFB	Add/Alter Life Support Facility	Current Mission	New	3,033
18	GU	Andersen AFB	Reserve Medical Training Facility	Current Mission	New	5,200
				Total Projects		48,833
				Planning & Design		4,000
				Unspecified MC		8,198
				Total FY18 Program		61,031
19	MO	Whiteman AFB	Construct Medical Squadron Facility	Current Mission	New	3,250
19	HI	JBPH Hickam	Construct Consolidated Training Facility	Current Mission	New	4,100
19	GA	Robins AFB	Consolidated Mission Complex Phase 2	Current Mission	New	29,900
19	MN	Minneapolis-St. Paul ARS	Enclose Small Arms Range	Current Mission	New	5,525
				Total Projects		42,775
				Planning & Design		3,300
				Unspecified MC		4,555
				Total FY19 Program		50,630
20	IN	Grissom ARB	Add/Alter Aircraft Maintenance Hangar	Current Mission	New	11,300
20	CA	March ARB	Joint Regional Cargo Terminal	Current Mission	New	10,000
20	MS	Keesler AFB	Aeromedical Staging Squadron Facility	Current Mission	New	3,410
20	ΤX	Naval Air Station JRB Ft. Worth	Munitions Training/Admin Facility	Current Mission	New	3,000
				Total Projects		27,710
				Planning & Design		3,300
				Unspecified MC		5,986
				Total FY20 Program		36,996
21	NC	Pittsburgh ARS	Combat Arms Training Facility	Current Mission	New	3,000
21	LA	Barksdale AFB	Missile Maintenance Facility	Current Mission	New	3,000
21	NY	Niagara Falls IAP	Construct Physical Fitness Center	Current Mission	New	14,000
21	CA	March ARB	Aircraft Maintenance Squadron Facility	Current Mission	New	11,300
				Total Projects		31,300
				Planning & Design		2,472
				Unspecified MC		2,704
				Total FY21 Program		36,476