

**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

<u>STATE/ COUNTRY</u>	<u>INSTALLATION AND PROJECT</u>	<u>AUTH OF APPROP AMOUNT</u>	<u>APPROP AMOUNT</u>	<u>DD FORM 1391 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	1,500	1,500	
	Planning & Design	<u>4,500</u>	<u>4,500</u>	
	<b>GRAND TOTAL</b>	<b>188,950</b>	<b>188,950</b>	

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

**MAJOR CONSTRUCTION**

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

<u>LOCATION</u>	<u>PROJECT</u>	<u>COST</u>	<u>NEW, CURRENT 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
<b>TOTAL</b>		<b>182,950</b>		
SUBTOTALS:				
	New Mission	182,950		
	Current Mission	0		
	Environmental	0		
	Unspecified Minor Construction	1,500		
	Planning & Design	<u>4,500</u>		
<b>FY 2017 APPROPRIATIONS TOTAL:</b>		<b>188,950</b>		

**SECTION 1**  
**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/non-flying 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 AIR FORCE RESERVE	<b>FY 2016 GUARD AND RESERVE MILITARY CONSTRUCTION</b>				2. DATE  FEB 2016																								
3. INSTALLATION AND LOCATION  SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA				4. AREA CONSTR COST INDEX 0.82																									
5. FREQUENCY AND TYPE UTILIZATION Daily use by civilian, technician and AGR force. One unit training assembly per month, 15 days annual field training per year.																													
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS None																													
7. PROJECTS REQUESTED IN THIS PROGRAM																													
<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>CATEGORY</u> <u>CODE</u></th> <th style="text-align: left;"><u>PROJECT TITLE</u></th> <th style="text-align: left;"><u>SCOPE</u></th> <th style="text-align: left;"><u>COST</u> <u>(\$000)</u></th> <th style="text-align: left;"><u>DESIGN</u> <u>START</u></th> <th style="text-align: left;"><u>DESIGN</u> <u>COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>211-111</td> <td>KC-46A TWO BAY CORROSION/FUEL HANGAR</td> <td>16,815 SM</td> <td>90,000</td> <td>Mar 2016</td> <td>Dec 2016</td> </tr> <tr> <td>171-159</td> <td>KC-46A ADAL BLDG FOR AGE/FUSELAGETRAINING</td> <td>2,800 SM</td> <td>5,700</td> <td>Mar 2016</td> <td>Dec 2016</td> </tr> <tr> <td>141-753</td> <td>KC-46A ADAL SQUADRON OPERATIONS FACILITIES</td> <td>737 SM</td> <td>2,250</td> <td>Mar 2016</td> <td>Dec 2016</td> </tr> </tbody> </table>						<u>CATEGORY</u> <u>CODE</u>	<u>PROJECT TITLE</u>	<u>SCOPE</u>	<u>COST</u> <u>(\$000)</u>	<u>DESIGN</u> <u>START</u>	<u>DESIGN</u> <u>COMPLETE</u>	211-111	KC-46A TWO BAY CORROSION/FUEL HANGAR	16,815 SM	90,000	Mar 2016	Dec 2016	171-159	KC-46A ADAL BLDG FOR AGE/FUSELAGETRAINING	2,800 SM	5,700	Mar 2016	Dec 2016	141-753	KC-46A ADAL SQUADRON OPERATIONS FACILITIES	737 SM	2,250	Mar 2016	Dec 2016
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141-753	KC-46A ADAL SQUADRON OPERATIONS FACILITIES	737 SM	2,250	Mar 2016	Dec 2016																								
8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION  Not reviewed – New Mission driven by AF Force Management decision																													
9. LAND ACQUISITION REQUIRED <span style="float: right;"><i>(Number of Acres)</i></span>  NONE																													
10. PROJECTS PLANNED IN NEXT FOUR YEARS																													
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218-712	KC-46A ADAL BLDG FOR AME STORAGE	960 SM	6,400	2018																									
RPM BACKLOG AT THIS INSTALLATION (\$000): 98,000																													

1. COMPONENT AIR FORCE RESERVE	<b>FY 2016 GUARD AND RESERVE MILITARY CONSTRUCTION</b>				2. DATE  FEB 2016			
3. INSTALLATION AND LOCATION  SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA								
11. PERSONNEL STRENGTH AS OF JAN 2016								
	<u>PERMANENT (ARTs, AGRs, Non-ART Civilians)</u>				<u>GUARD/RESERVE</u>			
	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>	<u>CIVILIAN</u>	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>	
<b>AUTHORIZED</b>	364	54	281	29	1,156	119	1,037	
<b>ACTUAL</b>	255	37	194	24	1,117	113	1,004	
12. RESERVE UNIT DATA								
	<u>UNIT DESIGNATION</u>				<u>STRENGTH</u>			
					<u>AUTHORIZED</u>		<u>ACTUAL</u>	
	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	<u>1,520</u>		<u>1,372</u>	
13. MAJOR EQUIPMENT AND AIRCRAFT								
	<u>TYPE</u>				<u>AUTHORIZED</u>		<u>ASSIGNED</u>	
	KC-135R				16		16	
	KC-46A				12		New Mission	

1. COMPONENT AIR FORCE RESERVE	<b>FY 2017 MILITARY CONSTRUCTION PROJECT DATA</b>			2. DATE  FEB 2016
3. INSTALLATION AND LOCATION SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA		4. PROJECT TITLE KC-46A TWO BAY CORROSION/FUEL CELL HANGAR		
5. PROGRAM ELEMENT 52576F	6. CATEGORY 211-111	7. PROJECT NUMBER VKAG159021	8. PROJECT COST (\$000) 90,000	
<b>9. COST ESTIMATES</b>				
ITEM	UM	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES				
GEN PURPOSE CORROSION CONTROL HANGAR	SM	5,875	4,230	62,452 (24,851)
GENERAL PURPOSE FUEL CELL HANGAR	SM	6,095	3,990	(24,319)
BACK SHOPS AND ADMINISTRATIVE OFFICES	SM	4,845	2,310	(11,192)
SUSTAINABILITY AND ENERGY MEASURES	LS			(1,811)
REPAIR AIRFIELD MARKINGS	SM	1,858	150	(279)
SUPPORTING FACILITIES				
COMMUNICATIONS	LS			15,785 (1,700)
SITE IMPROVEMENTS	LS			(4,000)
FIRE SUPPRESSION	LS			(2,335)
UTILITIES	LS			(1,250)
DEMO EXISTING FACILITIES/RAMP	LS			(5,000)
FOUNDATION/SOIL CONDITIONS	LS			(500)
TEMPORARY OFFICE SPACE	LS			(1,000)
SUBTOTAL				
CONTINGENCY (5%)				78,237 3,912
TOTAL CONTRACT COST				
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				82,149 4,682
DESIGN/BUILD – DESIGN COST (4%)				3,129
TOTAL REQUEST				
TOTAL REQUEST (ROUNDED)				89,961 90,000
EQUIPMENT FROM OTHER APPROPRIATIONS				
10. DESCRIPTION OF PROPOSED WORK: Clear site by demolishing existing facilities, utilities, and concrete ramp in the new hangar footprint. Construct one aircraft hangar to simultaneously accommodate one KC-46A aircraft in each bay. Construct reinforced concrete foundations, steel frame and roof system, insulated metal walls, utilities and other necessary work to make a complete and useable facility. Includes personnel support area, storage areas for hazardous materials, tools, supplies, and equipment. Hangar area will be provided with High Expansion Foam fire suppression and fall protection system. Also included are all associated utilities, site work, communications support, and pavement transitions. Environmental controls to include floor drains connected to a public sanitary sewer system, oil/water separator, pavements, parking areas, exterior lighting, fencing, and landscaping and other support work associated with the project. Remove and restripe painting on the parking apron for the KC-46A. Project shall comply with antiterrorism/force protection requirements identified in the DoD unified Facilities Criteria. The completed project shall be able to receive a U.S. Green Building Council Leadership in Energy and Environmental Design (LEED).				
11. REQUIREMENT: 16,815 SM                      ADEQUATE: 0 SM                      SUBSTANDARD: 16,815 SM				
PROJECT: Construct Two Bay Corrosion/Fuel Cell Hangar (New Mission)				
REQUIREMENT: The AF has designated Seymour Johnson AFB as Main Operating Base 3 for the KC-46A Tanker Aircraft. A single two-bay facility properly sized and configured to house corrosion control, wash rack operations and fuel system maintenance is needed to accomplish the mission. Minimum facility requirements for the corrosion control function are an environmentally controlled area to wash aircraft as required, and space for corrosion treating and repairing, plus performing aircraft maintenance painting. Space must also be provided for a preparation and paint application area for aircraft components and support equipment; paint mixing area; tool and equipment storage; paint storage; personnel hygiene facilities and administrative areas. The fuel system bay shall contain vapor exhaust and breathing air supply equipment to support on-aircraft inspections and repairs. These inspections require a controlled environment for safety, environmental protection and fuel contamination prevention. Also, a properly configured and striped aircraft apron is necessary for efficient movement of assigned aircraft.				

1. <b>COMPONENT</b> AIR FORCE RESERVE	<b>FY 2016 MILITARY CONSTRUCTION PROJECT DATA</b>	2. <b>DATE</b>  FEB 2016
3. <b>INSTALLATION AND LOCATION:</b> SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA		
4. <b>PROJECT TITLE:</b> KC-46A TWO BAY CORROSION/FUEL CELL HANGAR	5. <b>PROJECT NUMBER</b> VKAG159021	
<p><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.</p> <p><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.</p> <p><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.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force (Reserve) requirements.</p>		

<b>1. COMPONENT</b> AIR FORCE RESERVE	<b>FY 2016 MILITARY CONSTRUCTION PROJECT DATA</b>	<b>2. DATE</b>  FEB 2016	
<b>3. INSTALLATION AND LOCATION</b> SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA			
<b>4. PROJECT TITLE</b>  KC-46A TWO BAY CORROSION/FUEL CELL HANGAR	<b>5. PROJECT NUMBER</b>  VKAG159021		
<b>12. SUPPLEMENTAL DATA:</b>			
<b>A. DESIGN DATA (Estimated)</b>			
<b>1. STATUS</b>			
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		
<b>2. BASIS</b>			
a. Standard or Definitive Design - Yes ___ No <u>X</u> .			
b. Where Design Was Most Recently Used <u>N/A</u> .			
<b>3. COST (Total ) = c = a + b or d + e</b> <span style="float: right;">(\$000)</span>			
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)	( )		
<b>4. CONSTRUCTION START</b> <span style="float: right;">May 2017</span>			
<b>B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:</b>			
Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u>	Fiscal Year Appropriated Or Requested	Cost <u>(\$000)</u>
Furniture / Storage Equipment	3740	FY 2018	120
Interior Design Services	3740	FY 2018	80
Communications Equipment	3740	FY 2018	120



1. COMPONENT AIR FORCE RESERVE	<b>FY 2017 MILITARY CONSTRUCTION PROJECT DATA</b>	2. DATE  FEB 2016
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3. INSTALLATION AND LOCATION SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA	4. PROJECT TITLE KC-46A ADAL BLDG FOR AGE/FUSELAGE TRAINING
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5. PROGRAM ELEMENT 52576F	6. CATEGORY 171-159	7. PROJECT NUMBER VKAG159022	8. PROJECT COST (\$000) 5,700
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9. COST ESTIMATES				
ITEM	UM	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES				4,087
ALTER BLDG FOR KC-46A	SM	1,500	1,735	(2,603)
CONST COVERED STORAGE/TRAINING YARD	SM	1,300	1,050	(1,365)
SUSTAINABILITY AND ENERGY MEASURES	LS			(119)
SUPPORTING FACILITIES				900
UTILITIES	LS			(200)
COMMUNICATIONS	LS			(50)
SITE IMPROVEMENTS	LS			(550)
FOUNDATION/SOIL CONDITIONS	LS			(100)
SUBTOTAL				4,987
CONTINGENCY (5%)				249
TOTAL CONTRACT COST				5,236
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				298
DESIGN/BUILD – DESIGN COST (4%)				199
TOTAL REQUEST				5,734
TOTAL REQUEST (ROUNDED)				5,700
EQUIPMENT FROM OTHER APPROPRIATIONS				(1,075)

10. DESCRIPTION OF PROPOSED WORK: Add/Alter the interior of the building by demo/installing all necessary walls and reconfiguring the interior layout. Replace hangar door and add roll up doors for Fuselage Trainer access. Construct fuselage trainer covered outdoor storage area to include concrete pavement for loading. Construct fuselage office/classroom/restroom facilities to allow for mission requirements. Seal in existing hangar doors. Install rollup door on side of building for AGE shop and Electro/Environmental equipment access. Create contiguous traffic flow around facility including AFFF pond removal. 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 EAct of 2005 and CFR Title 10 Part 433), building commissioning, materials selection, and indoor environmental quality.

11. REQUIREMENT: 3,868 SM                      ADEQUATE: 1,068 SM                      SUBSTANDARD: 2,800 SM  
PROJECT: ADAL Building for AGE/Fuselage training (New Mission)  
REQUIREMENT: 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.  
CURRENT SITUATION: 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 PROVIDED: The 916 ARW will not be able to provide the required training and storage 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.

<b>1. COMPONENT</b> AIR FORCE RESERVE	<b>FY 2016 MILITARY CONSTRUCTION PROJECT DATA</b>	<b>2. DATE</b>  FEB 2016																																								
<b>3. INSTALLATION AND LOCATION</b> SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA																																										
<b>4. PROJECT TITLE</b> KC-46A ADAL BLDG FOR AGE/FUSELAGE TRAINING	<b>5. PROJECT NUMBER</b> VKAG159022																																									
<p>12. <u>SUPPLEMENTAL DATA:</u></p> <p>A. DESIGN DATA (Estimated)</p> <p>1. STATUS</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">a. Date Design Started:</td> <td style="text-align: right;">Mar 2016</td> </tr> <tr> <td colspan="2">b. Parametric estimates have been used to develop project cost.</td> </tr> <tr> <td>c. Percentage Complete as of January 1, 2016</td> <td style="text-align: right;">0%</td> </tr> <tr> <td>d. Date Design 35% Complete</td> <td style="text-align: right;">Jul 2016</td> </tr> <tr> <td>e. Date Design Complete - (If design-build, construction complete)</td> <td style="text-align: right;">Dec 2016</td> </tr> </table> <p>2. BASIS</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">a. Standard or Definitive Design - Yes ___ No <u>X</u>.</td> <td></td> </tr> <tr> <td>b. Where Design Was Most Recently Used</td> <td style="text-align: right;"><u>N/A</u>.</td> </tr> </table> <p>3. COST (Total ) = c = a + b or d + e <span style="float: right;">(\$000)</span></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">a. Production of Plans and Specifications (35% design)</td> <td style="text-align: right;">( <u>300</u> )</td> </tr> <tr> <td>b. All Other Design Costs (Design-build)</td> <td style="text-align: right;">( <u>199</u> )</td> </tr> <tr> <td>c. Total</td> <td style="text-align: right;">( <u>499</u> )</td> </tr> <tr> <td>d. Contract (A-E)</td> <td style="text-align: right;">( <u>      </u> )</td> </tr> <tr> <td>e. In-house (management)</td> <td style="text-align: right;">( <u>      </u> )</td> </tr> </table> <p>4. CONSTRUCTION START <span style="float: right;">May 2017</span></p> <p>B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:</p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: center;"><u>Equipment Nomenclature</u></th> <th style="text-align: center;"><u>Procuring Appropriation</u></th> <th style="text-align: center;"><u>Fiscal Year Appropriated Or Requested</u></th> <th style="text-align: center;"><u>Cost (\$000)</u></th> </tr> </thead> <tbody> <tr> <td>Furniture / Storage Equipment</td> <td style="text-align: center;">3740</td> <td style="text-align: center;">FY 2018</td> <td style="text-align: center;">40</td> </tr> <tr> <td>Interior Design Services</td> <td style="text-align: center;">3740</td> <td style="text-align: center;">FY 2018</td> <td style="text-align: center;">20</td> </tr> <tr> <td>Communications Equipment</td> <td style="text-align: center;">3740</td> <td style="text-align: center;">FY 2018</td> <td style="text-align: center;">40</td> </tr> </tbody> </table>			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	a. Standard or Definitive Design - Yes ___ No <u>X</u> .		b. Where Design Was Most Recently Used	<u>N/A</u> .	a. Production of Plans and Specifications (35% design)	( <u>300</u> )	b. All Other Design Costs (Design-build)	( <u>199</u> )	c. Total	( <u>499</u> )	d. Contract (A-E)	( <u>      </u> )	e. In-house (management)	( <u>      </u> )	<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>Fiscal Year Appropriated Or Requested</u>	<u>Cost (\$000)</u>	Furniture / Storage Equipment	3740	FY 2018	40	Interior Design Services	3740	FY 2018	20	Communications Equipment	3740	FY 2018	40
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1. COMPONENT AIR FORCE RESERVE		FY 2017 MILITARY CONSTRUCTION PROJECT DATA		2. DATE  FEB 2016	
3. INSTALLATION AND LOCATION SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA			4. PROJECT TITLE KC-46A ADAL SQUADRON OPERATIONS FACILITIES		
5. PROGRAM ELEMENT 52576F		6. CATEGORY 141-753	7. PROJECT NUMBER VKAG159025	8. PROJECT COST (\$000) 2,250	
9. COST ESTIMATES					
ITEM		UM	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES					1,629
RENOVATE INTERIOR		SM	500	1,884	(942)
CONSTRUCT ADDITION		SM	237	2,700	(640)
SUSTAINABILITY AND ENERGY MEASURES		LS			(47)
SUPPORTING FACILITIES					325
COMMUNICATIONS		LS			(57)
HVAC		LS			(75)
UTILITIES		LS			(83)
FOUNDATION/SOIL CONDITIONS		LS			(90)
PAVEMENT		LS			(20)
SUBTOTAL					1,954
CONTINGENCY (5%)					98
TOTAL CONTRACT COST					2,052
SUPERVISION, INSPECTION & OVERHEAD (5.7%)					117
DESIGN/BUILD – DESIGN COST (4%)					78
TOTAL REQUEST					2,247
TOTAL REQUEST (ROUNDED)					2,250
EQUIPMENT FROM OTHER APPROPRIATIONS					(140)
10. DESCRIPTION OF PROPOSED WORK: Add/Alter interior layout of building 4916 to accommodate new KC-46A equipment and efficiently organize squad ops area to maximize total force integration. Upgrade training areas to accept 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 EPAAct 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					
<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.					

<b>1. COMPONENT</b> AIR FORCE RESERVE	<b>FY 2016 MILITARY CONSTRUCTION PROJECT DAT A</b>	<b>2. DATE</b>  FEB 2016	
<b>3. INSTALLATION AND LOCATION</b> SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA			
<b>4. PROJECT TITLE</b>  KC-46A ADAL SQUADRON OPERATIONS FACILITIES		<b>5. PROJECT NUMBER</b>  VKAG159025	
<b>12. SUPPLEMENTAL DATA:</b>			
<b>A. DESIGN DATA (Estimated)</b>			
<b>1. STATUS</b>			
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	
<b>2. BASIS</b>			
a. Standard or Definitive Design - Yes ___ No <u>X</u> .			
b. Where Design Was Most Recently Used <u>N/A</u> .			
<b>3. COST (Total ) = c + a + b or d + e</b>			
	(\$000)		
a. Production of Plans and Specifications (35% design)		( <u>110</u> )	
b. All Other Design Costs (Design-build)		( <u>78</u> )	
c. Total		( <u>188</u> )	
d. Contract (A-E)		( <u>      </u> )	
e. In-house (management)		( <u>      </u> )	
<b>4. CONSTRUCTION START</b>			
		May 2017	
<b>B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:</b>			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
Furniture / Storage Equipment	3740	FY 2018	100
Interior Design Services	3740	FY 2018	20
Communications Equipment	3740	FY 2018	40

1. COMPONENT AIR FORCE RESERVE	<b>FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION</b>				2. DATE  FEB 2016																									
3. INSTALLATION AND LOCATION  PITTSBURGH AIR RESERVE STATION, PENNSYLVANIA					4. AREA CONSTR COST INDEX 1.06																									
5. FREQUENCY AND TYPE UTILIZATION Daily use by civilian, technician and AGR force. One unit training assembly per month, 15 days annual field training per year.																														
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS 171 ARW (ANG), Pittsburgh International Airport																														
<b>7. PROJECTS REQUESTED IN THIS PROGRAM</b>  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>CATEGORY CODE</u></th> <th style="text-align: left;"><u>PROJECT TITLE</u></th> <th style="text-align: left;"><u>SCOPE</u></th> <th style="text-align: left;"><u>COST (\$000)</u></th> <th style="text-align: left;"><u>DESIGN START</u></th> <th style="text-align: left;"><u>DESIGN COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>211-111</td> <td>C-17 CONSTRUCT TWO BAY CORROSION/FUEL HANGAR</td> <td>54,000 SM</td> <td>54,000</td> <td>Mar 2016</td> <td>Jan 2017</td> </tr> <tr> <td>121-122</td> <td>C-17 ADAL FUEL HYDRANT SYSTEM</td> <td>4 OL</td> <td>22,800</td> <td>Mar 2016</td> <td>Jan 2017</td> </tr> <tr> <td>113-321</td> <td>C-17 CONSTRUCT / OVERLAY TAXIWAY AND APRON</td> <td>17,600 SM</td> <td>8,200</td> <td>Mar 2016</td> <td>Jan 2017</td> </tr> </tbody> </table>							<u>CATEGORY CODE</u>	<u>PROJECT TITLE</u>	<u>SCOPE</u>	<u>COST (\$000)</u>	<u>DESIGN START</u>	<u>DESIGN COMPLETE</u>	211-111	C-17 CONSTRUCT TWO BAY CORROSION/FUEL HANGAR	54,000 SM	54,000	Mar 2016	Jan 2017	121-122	C-17 ADAL FUEL HYDRANT SYSTEM	4 OL	22,800	Mar 2016	Jan 2017	113-321	C-17 CONSTRUCT / OVERLAY TAXIWAY AND APRON	17,600 SM	8,200	Mar 2016	Jan 2017
<u>CATEGORY CODE</u>	<u>PROJECT TITLE</u>	<u>SCOPE</u>	<u>COST (\$000)</u>	<u>DESIGN START</u>	<u>DESIGN COMPLETE</u>																									
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<b>8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION</b>  Not reviewed – New Mission driven by AF Force Management decision																														
<b>9. LAND ACQUISITION REQUIRED</b>  NONE					<i>(Number of Acres)</i>																									
<b>10. PROJECTS PLANNED IN NEXT FOUR YEARS</b>  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>CATEGORY CODE</u></th> <th style="text-align: left;"><u>PROJECT TITLE</u></th> <th style="text-align: left;"><u>SCOPE</u></th> <th style="text-align: left;"><u>COST (\$000)</u></th> <th style="text-align: left;"><u>YEAR</u></th> </tr> </thead> <tbody> <tr> <td>113-321</td> <td>REPAIR AIRCRAFT APRON/TAXIWAYS</td> <td>87,500 SM</td> <td>21,000</td> <td>2017</td> </tr> <tr> <td>171-212</td> <td>RENOVATE B129 FOR C-17 FLIGHT SIMULATOR</td> <td>9,360 SF</td> <td>3,311</td> <td>2017</td> </tr> <tr> <td>211-152</td> <td>RENOVATE B417 FOR C-17 BACKSHOPS</td> <td>17,030 SF</td> <td>4,685</td> <td>2017</td> </tr> </tbody> </table>							<u>CATEGORY CODE</u>	<u>PROJECT TITLE</u>	<u>SCOPE</u>	<u>COST (\$000)</u>	<u>YEAR</u>	113-321	REPAIR AIRCRAFT APRON/TAXIWAYS	87,500 SM	21,000	2017	171-212	RENOVATE B129 FOR C-17 FLIGHT SIMULATOR	9,360 SF	3,311	2017	211-152	RENOVATE B417 FOR C-17 BACKSHOPS	17,030 SF	4,685	2017				
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211-152	RENOVATE B417 FOR C-17 BACKSHOPS	17,030 SF	4,685	2017																										
<b>RPM BACKLOG AT THIS INSTALLATION (\$000):</b> 15,462																														

<b>1. COMPONENT</b> AIR FORCE RESERVE	<b>FY 2017 GUARD AND RESERVE          MILITARY CONSTRUCTION</b>	<b>2. DATE</b>  FEB 2016	
<b>3. INSTALLATION AND LOCATION</b>  PITTSBURGH AIR RESERVE STATION, PENNSYLVANIA			
<b>11. PERSONNEL STRENGTH AS OF JAN 2015</b>			
	<b>PERMANENT (ARTs, AGRs, Non-ART Civilians)</b>	<b>GUARD/RESERVE</b>	
	<b>TOTAL    OFFICER    ENLISTED    CIVILIAN</b>	<b>TOTAL    OFFICER</b>	<b>ENLISTED</b>
<b>AUTHORIZED</b>	310    31    176    103	947    166	490
<b>ACTUAL</b>	307    28    171    108	998    170	828
<b>12. RESERVE UNIT DATA</b>			
	<b>UNIT DESIGNATION</b>	<b>STRENGTH</b>	
		<b>AUTHORIZED</b>	<b>ACTUAL</b>
	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
<b>13. MAJOR EQUIPMENT AND AIRCRAFT</b>			
	<b>TYPE</b>	<b>AUTHORIZED</b>	<b>ASSIGNED</b>
	C-130H	8	8
	C-17	8	8 (New Mission)

1. COMPONENT AIR FORCE RESERVE	<b>FY 2017 MILITARY CONSTRUCTION PROJECT DATA</b>			2. DATE  FEB 2016
3. INSTALLATION AND LOCATION PITTSBURGH AIR RESERVE STATION, PENNSYLVANIA		4. PROJECT TITLE C-17 CONSTRUCT TWO BAY CORROSION/FUEL HANGAR		
5. PROGRAM ELEMENT 52576F	6. CATEGORY 211-111	7. PROJECT NUMBER JLSS169001	8. PROJECT COST (\$000) 54,000	
<b>9. COST ESTIMATES</b>				
ITEM	UM	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES				
GEN PURPOSE CORROSION CONTROL HANGAR	SM	4,830	4,143	39,010
GEN PURPOSE FUEL CELL HANGAR	SM	4,830	3,292	(20,009)
CORROSION CONTROL-FIBERGLASS/COMP SHOP	SM	797	2,799	(15,900)
FUEL SYSTEM SHOP	SM	302	2,239	(2,231)
SUSTAINABILITY AND ENERGY MEASURES	LS			(676)
SUPPORTING FACILITIES				(194)
COMMUNICATIONS	LS			(9,753)
SITE IMPORVEMENTS	LS			(1,968)
FIRE SUPPRESSION	LS			(3,513)
UTILITIES	LS			(2,347)
SUBTOTAL				(1,925)
CONTINGENCY (5%)				48,763
TOTAL CONTRACT COST				2,438
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				51,201
TOTAL REQUEST				2,918
TOTAL REQUEST (ROUNDED)				54,119
<b>10. DESCRIPTION OF PROPOSED WORK:</b> Construct two-bay corrosion control / multipurpose and fuel cell/multipurpose aircraft hangar to accommodate one C-17 aircraft in each bay and associated back shops in the hangar. Construct reinforced concrete foundations, steel frame and roof system, insulated metal walls, utilities and other necessary work to make a complete and useable facility. Includes personnel support area, storage areas for hazardous materials, tools, supplies, and equipment. Hangar area will be provided with High Expansion Foam fire suppression and fall protection system. Also included are all associated utilities, site work, communications support, and a fire pump with 500,000 gallon capacity underground water storage reservoir. Environmental controls to include floor drains connected to a sanitary sewer system, pavements, parking areas, exterior lighting, fencing, and landscaping and other support work associated with the project. Project shall comply with antiterrorism/force protection requirements identified in the DoD unified Facilities Criteria. The completed project shall be able to receive a U.S. Green Building Council Leadership in Energy and Environmental Design (LEED) certification.				
<b>11. REQUIREMENT:</b> 10,759 SM                      ADEQUATE: 0 SM                      SUBSTANDARD: 10,759 SM				
<u>PROJECT:</u> Construct two bay corrosion/fuel cell hangar with specified back shops (New Mission)				
<u>REQUIREMENT:</u> The AF has decided to convert the existing C-130 mission at Pittsburgh ARB to the C-17 Mobility Aircraft. A single two-bay facility properly sized and configured to house corrosion control, wash rack operations, fuel system maintenance, and general maintenance in both bays is required to accomplish this mission. Minimum facility requirements for the corrosion control function are an environmentally controlled area to wash aircraft, and space for corrosion treatment and repair, and perform aircraft maintenance painting. Space must also be provided for a preparation and paint application area for aircraft components and support equipment; paint mixing area; tool and equipment storage; paint storage; personnel hygiene facilities and administrative areas. The fuel system bay shall contain vapor exhaust and breathing air supply equipment to support on-aircraft inspections and repairs. These inspections require a controlled environment for safety, environmental protection and fuel contamination prevention.				
<u>CURRENT SITUATION:</u> The C-17 is a new mission aircraft replacing the C-130H models at Pittsburgh ARS. Existing C-130H 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.				
<u>IMPACT IF NOT PROVIDED:</u> The 911 ARW will not be able to provide the required maintenance and repair of the new aircraft in support of national defense objectives.				

1. <b>COMPONENT</b> AIR FORCE RESERVE	<b>FY 2016 MILITARY CONSTRUCTION PROJECT DATA</b>	2. <b>DATE</b>  FEB 2016
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3. **INSTALLATION AND LOCATION:**  
PITTSBURGH AIR RESERVE STATION, PENNSYLVANIA

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

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.



<b>1. COMPONENT</b> AIR FORCE RESERVE	<b>FY 2017 MILITARY CONSTRUCTION PROJECT DATA</b>	<b>2. DATE</b>  FEB 2016	
<b>3. INSTALLATION AND LOCATION</b> PITTSBURGH AIR RESERVE STATION, PENNSYLVANIA			
<b>4. PROJECT TITLE</b>  C-17 CONSTRUCT TWO BAY CORROSION/FUEL HANGAR	<b>5. PROJECT NUMBER</b>  JLSS169001		
<b>12. SUPPLEMENTAL DATA:</b>			
<b>A. DESIGN DATA (Estimated)</b>			
<b>1. STATUS</b>			
a. Date Design Started:	Mar 2016		
b. Parametric estimates have been used to develop project cost.			
c. Percentage Complete as of January 1, 2015	0%		
d. Date Design 35% Complete	Jul 2016		
e. Date Design Complete - (If design-build, construction complete)	Dec 2016		
<b>2. BASIS</b>			
a. Standard or Definitive Design - Yes ___ No <u>X</u> .			
b. Where Design Was Most Recently Used <u>N/A</u> .			
<b>3. COST (Total) = c = a + b or d + e</b> <span style="float: right;">(\$000)</span>			
a. Production of Plans and Specifications (35% design)	( 758 )		
b. All Other Design Costs (Design-build)	(2,165)		
c. Total	(2,993)		
d. Contract (A-E)	( )		
e. In-house (management)	( )		
<b>4. CONSTRUCTION START</b> <span style="float: right;">May 2017</span>			
<b>B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:</b>			
<u>Equipment</u>	<u>Procuring</u>	<u>Fiscal Year</u>	<u>Cost</u>
<u>Nomenclature</u>	<u>Appropriation</u>	<u>Appropriated</u>	<u>(\$000)</u>
Furniture / Storage Equipment	3740	FY 2018	0
Interior Design Services	3740	FY 2018	0
Communications Equipment	3740	FY 2018	1,968

1. COMPONENT AIR FORCE RESERVE	<b>FY 2017 MILITARY CONSTRUCTION PROJECT DATA</b>	2. DATE  FEB 2016
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3. INSTALLATION AND LOCATION PITTSBURGH AIR RESERVE STATION, PENNSYLVANIA		4. PROJECT TITLE C-17 ADAL FUEL HYDRANT SYSTEM	
5. PROGRAM ELEMENT 52576F	6. CATEGORY 121-122	7. PROJECT NUMBER JLSS169002	8. PROJECT COST (\$000) 22,800

9. COST ESTIMATES				
ITEM	UM	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES				6,140
HYDRANT PITS & PIPING	LS			(5,640)
SUSTAINABILITY AND ENERGY MEASURES	LS			(500)
COMMUNICATIONS	LS			(1,968)
SUPPORTING FACILITIES				14,381
UTILITIES & PUMPS	LS			(10,981)
TANKS (5,000 BBL)	LS			(3,400)
SUBTOTAL				20,521
CONTINGENCY (5%)				1,026
TOTAL CONTRACT COST				21,547
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				1,228
TOTAL REQUEST				22,775
TOTAL REQUEST (ROUNDED)				22,800

10. DESCRIPTION OF PROPOSED WORK: Add/Alter Fuel Hydrant System for C-17 Mission. Construct a pressurized hydrant fuel system with 4 hydrants outlets, converting two 2,500 barrel above ground bulk fuel tanks to operational tanks, and constructing one 5,000 barrel bulk fuel storage tanks. Construct an 1800 GPM pump house to accommodate hydrant pumps, fuel filters and separators. Construct hydrant hose truck checkout and product recovery system and a transfer pipeline with pig launcher and receiver. Work also includes all necessary pumps, valves, filters, control systems, cathodic protection, fire protection, emergency generator and enclosure, utility and sewer connections, access pavements, fencing, and security lighting. Site preparation and improvements are included.

11. REQUIREMENT: 4 Outlets (OL)                      ADEQUATE: 0 OL                      SUBSTANDARD: 4 OL

PROJECT: Add/Alter Fuel Hydrant System (New Mission)

REQUIREMENT: The 911th AW requires on-site hydrant fueling and de-fueling capability to support mission generation requirements associated with the unit conversion to C-17 aircraft. 4 hydrant positions are required to support the new mission aircraft. In order to provide adequate operational capacity to the 911th AW ramp, additional on-site storage capacity and pumps will be required. The 911th AW hydrant system and associated operational storage will be connected to the main installation bulk fuel storage area by transfer pipelines.

CURRENT SITUATION: Existing bulk storage system is inadequate to support the fueling requirements of the C-17. Addition of fuel hydrant system is required to fuel the C-17 aircraft. Currently there is no hydrant fuel system at Pittsburgh ARS, only bulk storage.

IMPACT IF NOT PROVIDED: The 911 ARW will not be able to provide the required maintenance and repair of the new aircraft in support of national defense objectives.

ADDITIONAL: 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.

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.

<b>1. COMPONENT</b> AIR FORCE RESERVE	<b>FY 2017 MILITARY CONSTRUCTION PROJECT DATA</b>	<b>2. DATE</b>  FEB 2016	
<b>3. INSTALLATION AND LOCATION</b> PITTSBURGH AIR RESERVE STATION, PENNSYLVANIA			
<b>4. PROJECT TITLE</b>  C-17 ADAL FUEL HYDRANT SYSTEM	<b>5. PROJECT NUMBER</b>  JLSS169002		
<b>12. SUPPLEMENTAL DATA:</b>			
<b>A. DESIGN DATA (Estimated)</b>			
<b>1. STATUS</b>			
a. Date Design Started:	Mar 2016		
b. Parametric estimates have been used to develop project cost.			
c. Percentage Complete as of January 1, 2015	0%		
d. Date Design 35% Complete	Jul 2016		
e. Date Design Complete - (If design-build, construction complete)	Dec 2016		
<b>2. BASIS</b>			
a. Standard or Definitive Design - Yes ___ No <u>X</u> .			
b. Where Design Was Most Recently Used <u>N/A</u> .			
<b>3. COST (Total) = c = a + b or d + e</b> <span style="float: right;">(\$000)</span>			
a. Production of Plans and Specifications (35% design)	(318.9)		
b. All Other Design Costs (Design-build)	( 911 )		
c. Total	(1,230)		
d. Contract (A-E)	( )		
e. In-house (management)	( )		
<b>4. CONSTRUCTION START</b> <span style="float: right;">May 2017</span>			
<b>B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:</b>			
Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u>	Fiscal Year <u>Appropriated Or Requested</u>	Cost <u>(\$000)</u>
Furniture / Storage Equipment	3740	FY 2018	0
Interior Design Services	3740	FY 2018	0
Communications Equipment	3740	FY 2018	100

1. COMPONENT AIR FORCE RESERVE	<b>FY 2017 MILITARY CONSTRUCTION PROJECT DATA</b>			2. DATE  FEB 2016
3. INSTALLATION AND LOCATION PITTSBURGH AIR RESERVE STATION, PENNSYLVANIA		4. PROJECT TITLE C-17 CONST/OVERLAY TAXIWAY AND APRON		
5. PROGRAM ELEMENT 52576F	6. CATEGORY 113-321	7. PROJECT NUMBER JLSS169003	8. PROJECT COST (\$000) 8,200	
<b>9. COST ESTIMATES</b>				
	<b>UM</b>	<b>QUANTITY</b>	<b>UNIT COST</b>	<b>COST (\$000)</b>
PRIMARY FACILITIES				
CONCRETE PAVEMENT	SM	17,600	292	7,059
FLEXIBLE PAVEMENT	SM	6,400	300	(5,139)
SUPPORTING FACILITIES				
SITE IMPROVEMENTS	LS			(1,920)
SUBTOTAL				
CONTINGENCY (5%)				304
TOTAL CONTRACT COST				
SUPERVISION, INSPECTION & OVERHEAD (5.7%)				7,363
TOTAL REQUEST				
TOTAL REQUEST (ROUNDED)				368
TOTAL REQUEST (ROUNDED)				
10. DESCRIPTION OF PROPOSED WORK: Construct 17,600 SM (21,100 SY) of concrete pavement and 6,400 SM (7,700 SY) flexible pavement. The pavement profile is suggested to consist of the following layers: 16 inches of Portland Cement Concrete (PCC), 6 inches of gravel consisting of 1-inch or less diameter rock, and 18 inches of lime stabilized soil as defined in design, or 16 inches of asphaltic concrete (AC), 6 inches of gravel consisting of 1-inch or less diameter rock, and 18 inches of lime stabilized soil as defined in design. Provide storm drainage, stripe taxi lanes, seal joints. The project will comply with DoD antiterrorism force protection requirements per Unified Facilities Criteria.				
11. REQUIREMENT: 24,000 SM                      ADEQUATE: 71,500 SM                      SUBSTANDARD: 24,000 SM				
<u>PROJECT</u> : Construct / Overlay Taxi-Way and Apron (New Mission)				
<u>REQUIREMENT</u> : Additional ramp space is required to park and operate 8 permanently assigned C-17 aircraft and have sufficient stand-off for safe operations with other airframe and maintenance vehicles due to the replacement of 8 assigned C-130 aircraft at Pittsburgh ARS.				
<u>CURRENT SITUATION</u> : The AF has designated Pittsburgh ARS as Main Operating Base for the C-17 aircraft replacing the C-130 aircraft. Existing apron and taxiway pavements will not accommodate the C-17 aircraft. Addition of apron and taxiway pavements is necessary for C-17 aircraft.				
<u>IMPACT IF NOT PROVIDED</u> : The 911 ARW will not be able to meet mission needs of the new aircraft in support of national defense objectives. Existing ramp and taxiway pavements will not accommodate new C-17 mission.				
<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.				
<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.				

<b>1. COMPONENT</b> AIR FORCE RESERVE	<b>FY 2017 MILITARY CONSTRUCTION PROJECT DATA</b>	<b>2. DATE</b>  FEB 2016	
<b>3. INSTALLATION AND LOCATION</b> PITTSBURGH AIR RESERVE STATION, PENNSYLVANIA			
<b>4. PROJECT TITLE</b>  C-17 CONST/OVERLAY TAXIWAY & APRON	<b>5. PROJECT NUMBER</b>  JLSS169003		
<b>12. SUPPLEMENTAL DATA:</b>			
<b>A. DESIGN DATA (Estimated)</b>			
<b>1. STATUS</b>			
a. Date Design Started:	Mar 2016		
b. Parametric estimates have been used to develop project cost.			
c. Percentage Complete as of January 1, 2015	0%		
d. Date Design 35% Complete	Jul 2016		
e. Date Design Complete - (If design-build, construction complete)	Dec 2016		
<b>2. BASIS</b>			
a. Standard or Definitive Design - Yes ___ No <u>X</u> .			
b. Where Design Was Most Recently Used <u>N/A</u> .			
<b>3. COST (Total ) = c = a + b or d + e</b> <span style="float: right;">(\$000)</span>			
a. Production of Plans and Specifications (35% design)	(114.8)		
b. All Other Design Costs (Design-build)	( 328 )		
c. Total	(442.8)		
d. Contract (A-E)	( )		
e. In-house (management)	( )		
<b>4. CONSTRUCTION START</b> <span style="float: right;">May 2017</span>			
<b>B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:</b>			
<u>Equipment</u>	<u>Procuring</u>	<u>Fiscal Year</u>	<u>Cost</u>
<u>Nomenclature</u>	<u>Appropriation</u>	<u>Appropriated</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 AIR FORCE RESERVE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. DATE  FEB 2016	
3. INSTALLATION AND LOCATION  VARIOUS LOCATIONS			4. PROJECT TITLE  UNSPECIFIED MINOR CONSTRUCTION		
5. PROGRAM ELEMENT  52576F	6. CATEGORY CODE  962-000	7. PROJECT NUMBER  PAYZ 170341	8. PROJECT COST (\$000)  1,500		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
UNSPECIFIED MINOR CONSTRUCTION		LS	-	-	1,500
SUBTOTAL					1,500
TOTAL CONTRACT COST					1,500
TOTAL REQUEST					1,500
10. Description of Proposed Construction:					
<p data-bbox="126 1100 1438 1131">11. REQUIREMENT: As required.</p> <p data-bbox="126 1171 1438 1203"><u>PROJECT:</u> Unspecified Minor Construction</p> <p data-bbox="126 1243 1438 1388"><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.</p> <p data-bbox="126 1394 1438 1497"><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.</p>					

**SECTION 4**  
**PLANNING AND DESIGN**



1. COMPONENT AIR FORCE RESERVE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. DATE  FEB 2016	
3. INSTALLATION AND LOCATION  VARIOUS LOCATIONS			4. PROJECT TITLE  PLANNING AND DESIGN		
5. PROGRAM ELEMENT  52576F	6. CATEGORY CODE  961-000	7. PROJECT NUMBER  PAYZ 170313	8. PROJECT COST (\$000)  4,500		
<b>9. COST ESTIMATES</b>					
<b>ITEM</b>		<b>U/M</b>	<b>QUANTITY</b>	<b>UNIT COST</b>	<b>COST (\$000)</b>
PLANNING AND DESIGN		LS	-	-	4,500
SUBTOTAL					4,500
TOTAL CONTRACT COST					4,500
TOTAL REQUEST					4,500
10. Description of Proposed Construction:					
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.					

**SECTION 5**  
**FUTURE YEARS DEFENSE PROGRAM**

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

<b>FY</b>	<b>State</b>	<b>Base</b>	<b>Project</b>	<b>Type</b>	<b>Foot print</b>	<b>PA</b>	
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	TX	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