AIR NATIONAL GUARD

Fiscal Year (FY) 2017
BUDGET ESTIMATES

MILITARY CONSTRUCTION

APPROPRIATION 3830

PROGRAM YEAR 2017

Justification Data Submitted to Congress

February 2016

DEPARTMENT OF THE AIR FORCE
AIR NATIONAL GUARD
MILITARY CONSTRUCTION PROGRAM FOR FISCAL YEAR 2017

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SUMMARY PROJECT LIST
AIR NATIONAL GUARD
MILITARY CONSTRUCTION PROGRAM -- FY 2017

STATE	INSTALLATION AND PROJECT	AUTH AMOUNT ($000)	APPN AMOUNT ($000)	PAGE NO.
CONNECTICUT	**Bradley International Airport**			
	Construct Small Air Terminal	6,300	6,300	**II-1**
		6,300	**6,300**	
FLORIDA	**Jacksonville International Airport**			
	Replace Fire Crash/Rescue Station	9,000	9,000	**II-6**
		9,000	**9,000**	
HAWAII	**Joint Base Pearl Harbor - Hickam**			
	F-22 Composite Repair Facility	11,000	11,000	**II-11**
		11,000	**11,000**	
IOWA	**Sioux Gateway Airport/Col Bud Day Field**			
	Construct Consolidate Support Functions	12,600	12,600	**II-16**
		12,600	**12,600**	
MINNESOTA	**Duluth International Airport**			
	Load Crew Training/Weapon Shops	7,600	7,600	**II-21**
		7,600	**7,600**	
NEW HAMPSHIRE	**Pease International Tradeport ANG**	1,500	1,500	**II-26**
	KC-46A Install Fuselage Trainer Bldg 251	**1,500**	**1,500**	
NORTH CAROLINA	**Charlotte/Douglas International Airport**			
	C-17 Corrosion Control/Fuel Cell Hangar	29,600	29,600	**II-31**
	C-17 Type III Hydrant Refueling System	21,000	21,000	**II-36**
		50,600	**50,600**	
SOUTH CAROLINA	**McEntire Joint National Guard Base**			
	Replace Operations and Training Facility	8,400	8,400	**II-39**
		8,400	**8,400**	
TEXAS	**Ellington Field**			
	Consolidate Crew Readiness Facility	4,500	4,500	**II-44**
		4,500	**4,500**	
VERMONT	**Burlington International Airport**			
	F-35 Beddown 4- Bay Flight Simulator	4,500	4,500	**II-49**
		4,500	**4,500**	
	SUB-TOTAL -- MAJOR CONSTRUCTION	**116,000**	**116,000**	
	PLANNING AND DESIGN		**10,462**	**II-55**
	UNSPECIFIED MINOR CONSTRUCTION		**17,495**	**II-59**
	SUB - TOTAL -- SUPPORT COSTS		**27,957**	
	GRAND TOTAL - FY 2017 REQUEST	**116,000**	**143,957**	

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NEW MISSION/CURRENT MISSION EXHIBIT
AIR NATIONAL GUARD
MILITARY CONSTRUCTION PROGRAM -- FY 2017

LOCATION	PROJECT	COST ($000)	CURRENT/ NEW/ENV
Bradley International Airport, CT	Construct Small Air Terminal	6,300	N
Jacksonville International Airport, FL	Replace Fire Crash/Rescue Station	9,000	C
Joint Base Pearl Harbor - Hickam, HI	F-22 Composite Repair Facility	11,000	C
Sioux Gateway Airport/Col Bud Day Field, IA	Construct Consolidate Support Functions	12,600	C
Duluth International Airport, MN	Load Crew Training/Weapon Shops	7,600	C
Pease International Tradeport ANG, NH	KC-46A Install Fuselage Trainer Bldg 251	1,500	N
Charlotte/Douglas International Airport, NC	C-17 Corrosion Control/Fuel Cell Hangar	29,600	N
Charlotte/Douglas International Airport, NC	C-17 Type III Hydrant Refueling System	21,000	N
McEntire Joint National Guard Base, SC	Replace Operations and Training Facility	8,400	C
Ellington Field, TX	Consolidate Crew Readiness Facility	4,500	C
Burlington International Airport, VT	F-35 Beddown 4- Bay Flight Simulator	4,500	N
	PLANNING AND DESIGN	**10,462**	
	UNSPECIFIED MINOR CONSTRUCTION	**17,495**	
	TOTAL ENERGY	**0**	
	TOTAL ENVIRONMENTAL	**0**	
	TOTAL NEW MISSION (5)	**62,900**	
	TOTAL CURRENT MISSION (6)	**53,100**	
	GRAND TOTAL - FY 2017 REQUEST	**143,957**	

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DEPARTMENT OF THE AIR FORCE
AIR NATIONAL GUARD
MILITARY CONSTRUCTION PROGRAM FOR FISCAL YEAR 2017

SECTION I

APPROPRIATIONS LANGUAGE

For construction, acquisition, expansion, rehabilitation, and conversion of facilities for the training and administration of the Air National Guard, and contributions therefor, as currently authorized by law, $143,957,000 to remain available until September 30, 2021.

SPECIAL PROGRAM CONSIDERATIONS

Environmental Compliance

The environmental compliance projects proposed in this program are necessary to correct current environmental noncompliance situations and to prevent future noncompliance.

Flood Plain Management and Wetland Protection

Proposed land acquisitions, disposals, and installation construction projects have been planned in accordance with the requirements of Executive Orders 11988, Flood Plain Management, and 11900, Protection of Wetlands. Projects have been sited to avoid long and short-term adverse impacts, reduce the risk of flood losses, and minimize the loss, or degradation of wetlands.

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 included in this program do not directly or indirectly affect a district, site, building, structure, object, or setting listed in the National Register of Historic Places, except as noted on the DD Forms 1391.

Environmental Protection

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

Economic Analysis

Economics are an inherent aspect of project development and design of military construction projects. Therefore, all projects included in this program represent the most economical use of resources.

SPECIAL PROGRAM CONSIDERATIONS
(continued)

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 those areas, and those which have been allocated to the areas for future activation, is not and will not be larger than the number that reasonably can be expected to be maintained at authorized strength considering the number of persons living in the areas who are qualified for membership in those reserve units.

Construction Criteria Manual

Unless otherwise noted, the projects comply with the scope and design criteria prescribed in the Unified Facilities Criteria (UFC).

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1. COMPONENT	**FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE
ANG		February 2016
3. INSTALLATION AND LOCATION		4. AREA CONSTR COST INDEX
BRADLEY INTERNATIONAL AIRPORT, EAST GRANBY		1.19

5. FREQUENCY AND TYPE OF UTILIZATION

Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS

Four Army National Guard Installations

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
141-783	Construct Small Air Terminal	1,477 SM (15,900 SF)	6,300	Nov 14	May 16

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

The Board recommendations are: Unilateral Construction Approved — 02 Apr 15 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)

Unfunded R&M Requirement = $21,849,000

1. COMPONENT	FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION

BRADLEY INTERNATIONAL AIRPORT, EAST GRANBY

11. PERSONNEL STRENGTH AS OF 01 May 14

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	276	7	67	202	976	121	855
ACTUAL	269	8	62	199	921	102	819

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
103 Airlift Wing	41	47
103 Civil Engineering Squadron	91	102
103 Communication Flight	31	30
103 Comptroller Flight	12	15
103 Force Support Squadron	46	44
103 Logistics Readiness Squadron	124	108
103 Medical Group	51	55
103 Maintenance Operations Flight	27	18
103 Mission Support Group	8	10
103 Maintenance Flight	57	45
103 Maintenance Group	15	10
103 Maintenance Squadron	228	155
103 Operations Group	8	6
103 Operations Support Flight	46	38
103 Security Forces Squadron	74	70
103 Student Flight	18	117
118 Airlift Squadron	99	51
TOTALS	976	921

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Support Equipment	190	145
Refuelers	3	3
Vehicle Equivalents	265	265
Vehicles	104	94
C-130	8	8

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BRADLEY INTERNATIONAL AIRPORT, CONNECTICUT	CONSTRUCT SMALL AIR TERMINAL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
54332F	141-783	CEKT139042	$6,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSTRUCT SMALL AIR TERMINAL	SM	1,477		5,067
SMALL AIR TERMINAL (141783)	SM	1,226	3,337	(4,091)
DEPLOYMENT PROCESSING (141786)	SM	251	3,886	(975)
SUPPORTING FACILITIES				438
PAVEMENTS AND UTILITIES	LS			(361)
COMMUNICATIONS SUPPORT	LS			(77)
ENERGY AND SUSTAINABILITY MEASURES	LS			155
SUBTOTAL				5,660
CONTINGENCY (5%)				283
TOTAL CONTRACT COST				5,943
SUPERVISION, INSPECTION AND OVERHEAD (6%)				356
TOTAL REQUEST				6,299
TOTAL REQUEST (ROUNDED)				6,300

10. Description of Proposed Construction: Construct a Small Air Terminal/Deployment Processing Center utilizing conventional design and construction methods. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This facility will be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Provide for open floor plan. Passive force protection methods as required.
Air Conditioning: 119 KW.

11. REQUIREMENT: 1,477 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM
PROJECT: Construct Small Air Terminal (New Mission).
REQUIREMENT: The installation requires an adequately sized and properly configured Small Air Terminal and Deployment Processing facility in support of 8 PAA C-130 aircraft. Functional areas include: training and pallet-buildup, deployment processing areas, personnel holding areas, aircraft fire fighting systems storage areas, office and storage spaces lockers and latrines.
CURRENT SITUATION: Through Total Force Integration (TFI) initiatives, the base was assigned the C-21 as a bridge mission to the C-130 aircraft after the prior A-10 mission was removed under BRAC 2005. Under the A-10 mission a small air terminal and deployment processing facility was not required, so none is available. The south end of the aircraft parking apron has an area that has sufficient space to support the construction of a new small air terminal complex.
IMPACT IF NOT PROVIDED: The unit will not have a facility in which to perform small air terminal or deployment processing activities. The unit will be unable to train on cargo handling functions, which are fundamental to C-130 operations. Without the proper training, pallets and the cargo may be damaged during operations. Without the proper and safe handling, the cargo could shift and damage the aircraft interiors. Technical orders will be violated. Safety measures will be compromised. Unit would be hindered in deployment and would likely be unable to attain or maintain mission operational status.
ADDITIONAL: Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423,

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION

BRADLEY INTERNATIONAL AIRPORT, CONNECTICUT

5. PROJECT TITLE	7. PROJECT NUMBER
CONSTRUCT SMALL AIR TERMINAL	CEKT139042

10 USC 2802(c) and other applicable laws and Executive Orders. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the cost efficient over the life of the project.

CatCode		Requirement	Adequate	Substandard
141-783	SMALL AIR TERMINAL	1,226 SM	0 SM	0 SM
141-786	DEPLOYMENT PROCESSING FACILITY	251 SM	0 SM	0 SM

SMALL AIR TERMINAL (141783)	1,226 SM = 13,200 SF
DEPLOYMENT PROCESSING (141786)	251 SM = 2,700 SF

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION
BRADLEY INTERNATIONAL AIRPORT, CONNECTICUT

5. PROJECT TITLE	7. PROJECT NUMBER
CONSTRUCT SMALL AIR TERMINAL	CEKT139042

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	NOV 2014
(b) Parametric Cost Estimates used to develop costs	No
(c) Percent Complete as of Jan 2016	65%
* (d) Date 35% Designed	SEP 2015
(e) Date Design Complete	MAY 2016
(f) Type of Design Contract	
(g) Energy Study/Life-Cycle analysis was/will be performed	No
(2) Basis:	
(a) Standard or Definitive Design -	No
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	521
(b) All Other Design Costs	0
(c) Total	521
(d) Contract	521
(e) In-House	
(4) Contract Award (Month/Year)	DEC 2016
(5) Construction Start	MAR 2017
(6) Construction Completion	OCT 2018

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

POINT OF CONTACT: NGB/A7AD
(240) 612-7042

1. COMPONENT ANG	**FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE February 2016
3. INSTALLATION AND LOCATION JACKSONVILLE INTERNATIONAL AIRPORT, JACKSONVILLE		4. AREA CONSTR COST INDEX .89

5. FREQUENCY AND TYPE OF UTILIZATION
Four Unit Training Assemblies (UTA) per month, 15 annual field training days per year. Daily use of technician force.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS
None

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
130-142	Replace Fire Crash/Rescue Station	1,617 SM (17,400 SF)	9,000	Aug 15	Aug 16

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
The Board recommendations are: Unilateral Construction Approved — 30 Apr 15 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)

Unfunded R&M Requirement: $25,667,000

1. COMPONENT	FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION

JACKSONVILLE INTERNATIONAL AIRPORT, JACKSONVILLE

11. PERSONNEL STRENGTH AS OF 27 May 15

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	396	37	357	2	636	89	547
ACTUAL	359	37	320	2	662	83	579

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
125 AMS	168	152
125 Civil Engineering Squadron	51	51
125 Communication Flight	31	30
125 CPRT	16	16
125 Detachment 1	28	27
125 Force Support Squadron	38	41
125 Fighter Wing	53	54
125 Logistics Readiness Squadron	76	69
125 Medical Group	108	90
125 Mission Support Group	9	8
125 Maintenance Group	20	20
125 MXOF	25	27
125 Maintenance Squadron	226	226
125 Operations Group	14	8
125 Operations Support Flight	32	31
125 Security Forces Squadron	74	59
125 Student Flight	34	83
159 Fighter Squadron	29	29
TOTALS	1,032	1,021

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
C-26 Aircraft	1	1
F-15 Aircraft	18	21
Support Equipment	107	95
Vehicle Equivalents	218	218

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
JACKSONVILLE INTERNATIONAL AIRPORT, FLORIDA	REPLACE FIRE CRASH/RESCUE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
52276F	130-142	LSGA019179	$9,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FIRE STATION	SM	1,617		5,535
FIRE STATION AREA	SM	1,617	3,423	(5,535)
SUPPORTING FACILITIES				2,389
UTILITIES	LS			(357)
PAVEMENTS	LS			(988)
SITE IMPROVEMENTS	LS			(549)
COMMUNICATIONS SUPPORT	LS			(220)
DRAINAGE CONTROL	LS			(275)
SUSTAINABILITY AND ENERGY MEASURES	LS			137
SUBTOTAL				8,061
CONTINGENCY (5%)				403
TOTAL CONTRACT COST				8,464
SUPERVISION, INSPECTION AND OVERHEAD (6%)				507
TOTAL REQUEST				8,971
TOTAL REQUEST (ROUNDED)				9,000

10. Description of Proposed Construction: Construct a fire/crash rescue station facility utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special Construction Requirements: Provide all exterior utilities, communications infrastructure, fire protection, backup electrical generator, access pavements and roadway improvements to Infield Road, Shooting Star Road, and the flight line access road. Air Conditioning: 210 KW.

11. REQUIREMENT: 1,617 SM ADEQUATE: 0 SM SUBSTANDARD: 814 SM
PROJECT: Replace Fire Station (Current Mission).
REQUIREMENT: The 125th Fighter Wing requires a facility to adequately support the crash/rescue mission generated by the assigned F-15 aircraft flying operations. The facility must contain adequate space for assigned vehicles, control room, training administrative functions, kitchen, dining, day room, bunk rooms, extinguisher and equipment maintenance, and storage. Facility must be able to support a 24-hour/day operation by up to 13 full time male and female firefighters. Fire/Crash/Rescue operations jointly support Jacksonville International Airport operations as well as an 18 PAA F-15 unit. Fire/crash/rescue personnel support all airfield operations including the aircraft alert mission.
CURRENT SITUATION: The 125th Fire Station is currently housed in two prefabricated facilities. The administration section, fire alarm control center, training area, dining/kitchen area and sleeping quarters are in building 1044, which is 4,560 SF. The vehicle bay area and equipment storage are in building 1045, which is 4,200SF. The two facilities are separated from each other which cause fire department personnel to be unduly exposed to safety hazards and the environment when reporting to their vehicles for response to emergency and non-emergency calls during periods of inclement weather. Due to the location of these facilities, the fire department is unable to meet the FAA minimum time

requirement to reach the farthest point of the airfield and apply agent. The minimum time is 3 minutes. With the current location response times often exceed 4 minutes. The configuration of the bays in this location creates a safety hazard for entry and exit of the facility. The turning radius of the vehicles compounded by the low visibility in areas around the station, create a high probability of a collision resulting in equipment damage and personnel injury. The bays do not have proper ventilation as directed by the National Fire Protection Association and fire fighters are continuously exposed to toxic fumes. The bay doors are not properly sized to support new fire apparatus coming on line. In addition, the lack of access roads to the flightline and the airfield, place base personnel in a state of diminished safety during emergency responses due to extended travel on base roads.

IMPACT IF NOT PROVIDED: Fire Department personnel response effectiveness will continue to degrade and negatively impact the mission efficiency. This negative impact could produce both personnel injury/fatality and mission essential equipment destruction. The risk of loss of aircraft and aircrew assests will increase. Training will continue to be hampered by the inadequate facilities in which it is conducted. Costs to provide adequate securing measures for computers, software, and other equipment will increase. Command and control will continue to be hampered by poor functional relationships, inadequate space and dispersion of the equipment and personnel, inadequate space to conduct functions associated with operational missions. Fire department contingency training and deployment capability will be impeeded and cost more to meet minimum standards to ensure deployment readiness.

ADDITIONAL: Space vacated by the Fire Department will be turned over to Explosive Ordnance Disposal, and Readiness personnel to eliminate their space deficiencies and increase their mission effectiveness. All known alternatives options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. This project meets the criteria/scope specified in Air Force Handbook 32-1084, “Facility Requirements” and is in compliance with the base master plan. This project will incorporate Leadership in Energy and Environmental Design (LEED) and sustainable development concepts. The purpose is to achieve optimum resource efficiency, constructability, sustainability , and energy conservation, while minimizing adverse impacts to the built and natural environment through all phases of its life cycle. This may result in primary facility costs exceeding DoD costing standards, but the initial investment in higher acquisition cost will be rewarded with lower life cycle costs. This is consistent with the requirements of the Energy Policy Act of 2005 and Executive Order 13423. These facilities are an “inhabited” buildings and meet the standoff distance requirements. There is no threat and the level of protection is low so minimum construction standards have been applied. This project was previously approved by the Joint Reserve Facilities Board under project number LSGA919541, “Construct Fire/EOD/DP Facility”.

CatCode		Requirement	Adequate	Substandard
130-142	FIRE CRASH/RESCUE STATION	1,617 SM	0 SM	814 SM

FIRE STATION AREA 1,617 SM = 17,400 SF

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION
JACKSONVILLE INTERNATIONAL AIRPORT, FLORIDA

5. PROJECT TITLE	7. PROJECT NUMBER
REPLACE FIRE CRASH/RESCUE STATION	LSGA019179

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	AUG 2015
(b) Parametric Cost Estimates used to develop costs	No
(c) Percent Complete as of Jan 2016	10%
* (d) Date 35% Designed	MAR 2016
(e) Date Design Complete	AUG 2016
(f) Type of Design Contract	
(g) Energy Study/Life-Cycle analysis was/will be performed	No
(2) Basis:	
(a) Standard or Definitive Design -	no
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	246
(b) All Other Design Costs	492
(c) Total	738
(d) Contract	738
(e) In-House	
(4) Contract Award (Month/Year)	DEC 2016
(5) Construction Start	MAR 2017
(6) Construction Completion	MAY 2018

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

POINT OF CONTACT: NGB/A7AD
(240) 612-8083

1. COMPONENT	**FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. AREA CONSTR COST INDEX
JOINT BASE PEARL HARBOR - HICKAM, HONOLULU (OAHU)	2.10

5. FREQUENCY AND TYPE OF UTILIZATION

One Unit Training Assemby per month, 15 days annual field training per year, daily use by technician/AGR force for training. Associate FW with AD as of FY10. ASA augmented by F-15 120th FW, MT thru 2014.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS

2 Army Installations, 1 Army Facility, 1 Air Force Base, 1 Air Force Reserve, 1 Naval Installations, 1 Marine Corps Reserve Center, 4 Army National Guard Installations, 1 Air National Guard

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
211-159	F-22 Composite Repair Facility	1,067 SM	$11,000	Oct 15	Sept 16

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

The Board recommendations are: Unilateral Construction Approved — 11 Aug 14 (Date)

9. LAND ACQUISITION REQUIRED — 202 (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)

R&M Unfunded Requirement: $6,495,000

1. COMPONENT	FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION

JOINT BASE PEARL HARBOR - HICKAM, HONOLULU (OAHU)

11. PERSONNEL STRENGTH AS OF 12 Jul 11

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	1,014	117	880	17	2,547	355	2,192
ACTUAL	987	110	860	17	2,254	284	1,970

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
HQ ANG	45	38
HQ WING	66	46
154 Medical Group	110	79
154 Comptroller Flight	18	19
154 Aircraft Maintenance Squadron	303	267
154 Civil Engineering Squadron	69	69
154 Communication Flight	44	49
154 Logistics Readiness Squadron	91	90
154 Maintenance Operations Flight	50	43
154 Mission Support Group	13	11
154 Force Support Squadron	60	58
154 Maintenance Squadron	391	330
154 Operations Group	9	8
154 Operations Support Squadron	83	72
154 Security Forces Squadron	74	68
154 Maintenance Group	47	36
169 Air Traffic Control Squadron	232	212
199 Fighter Squadron	30	25
199 Weather Flight	14	8
109 Air Operational Group	131	88
201 Combat Communications Group	45	52
201 Intelligence Squadron	55	51
203 Air Refueling Squadron	73	64
204 Airlift Squadron	104	108
291 Combat Communications Squadron	105	102
292 Combat Communications Squadron	105	97
293 Combat Communications Squadron	90	77
297 Air Traffic Control Squadron	90	87
TOTALS	2,547	2,254

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Vehicles	218	214
F-22 AIRCRAFT	18	20
KC-135R Aircraft	12	13
Support Equipment	512	509
Vehicle Equivalents	820	820

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
JOINT BASE PEARL HARBOR - HICKAM, HAWAII	F-22 COMPOSITE REPAIR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
52276F	211-159	KNMD159060	$11,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO COMPOSITE REPAIR FACILITY	SM	1,318		7,763
CONSTRUCT LO/CRF BAY ADDITION	SM	928	6,900	(6,403)
CONSTRUCT ADDITIONAL SHOP SUPPORT AREA	SM	139	6,652	(925)
RECONFIGURE EXISTING MECHANICAL AREAS	SM	251	1,733	(435)
SUPPORTING FACTILITIES	LS			1,860
PAVEMENTS	LS			(400)
UTILITIES	LS			(200)
SITE WORK	LS			(420)
COMMUNICATIONS SUPPORT	LS			(150)
FIRE SUPPRESSION SUPPORT	LS			(690)
SUSTAINABILITY AND ENERGY MEASURES	LS			269
SUBTOTAL				9,892
CONTINGENCY (5%)				495
TOTAL CONTRACT COST				10,387
SUPERVISION, INSPECTION AND OVERHEAD (6%)				623
TOTAL REQUEST				11,010
TOTAL REQUEST (ROUNDED)				11,000

10. Description of Proposed Construction: Construct a single-bay addition to the current 2-bay F-22 Low Observable/Composite Repair Facility (LO/CRF) utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special Construction Requirements: Tie into existing two-bay LO facility is required while maintaining aircraft maintenance operations at full capacity. The facility requires a special corrosion controlled environment for the LO bay, security measures, and specialized climate control systems to regulate temperature, humidity, airflow and fall protection.

11. REQUIREMENT: 5,741 SM ADEQUATE: 3,066 SM SUBSTANDARD: 0 SM
PROJECT: Construct a one-bay addition to the existing LO/CRF (Current Mission).
REQUIREMENT: The 154th Fighter Wing requires a 3rd LO/CRF bay to perform maintenace for a squadron of 18-PAA, F-22 Fighter Aircraft at Hickam ANGB, Joint Base Pearl Harbor-Hickam, HI. The materials produced during composite repair require unique equipment and supplies for maintenance and repair, and a specialized, environmentally-controlled facility to perform the work. The facility requires a special corrosion controlled environment for the LO bay, security measures, and specialized climate control systems to regulate temperature, humidity, airflow and fall protection. The facility must contain areas for corrosion inspection, on- and off-aircraft LO restoration, LO restoration following aircraft maintenance, on-aircraft composite material repairs, off equipment training.
CURRENT SITUATION: The existing two-bay building does not provide the required capacity necessary for composite aircraft skin maintenance, laminating, and painting. The aircraft fleet requires additional capacity beyond what can be maintained with the two-bay facility. The two-bay operation is

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016
3. INSTALLATION AND LOCATION		
JOINT BASE PEARL HARBOR - HICKAM, HAWAII		
5. PROJECT TITLE		7. PROJECT NUMBER
F-22 COMPOSITE REPAIR FACILITY		KNMD159060

in continual use leaving no time for building sustainment without a 50% reduction in aircraft production rates. Aircraft are suffering a backlog for routine LO/CRF maintenance. The unit has attempted a workaround to perform minor repairs to LO/CR components outside of an LO/CRF bay, with negligible success. Critical mission requirements are inhibited since aircraft are not available due to required and frequent composite maintenance and repair. The remote location prohibits returning jets to depot for routine LO/CRF maintenance - they must be maintained on-island. There is enough property adjacent to the existing two-bay facility to build one additional bay and increase production rates to a more acceptable level.

IMPACT IF NOT PROVIDED: The current building will remain functional, but mission operations will continue to be limited/inhibited due to the insufficient LO/CRF capacity. Fully Mission Capable (FMC) rates will continue to decrease as the backlog of aircraft needing exterior coating treatments continue to increase. This will result in fewer resources (time and equipment) available to sustain required aircraft training and mission accomplishment. Additionally, facility maintenance downtime restricts the aircraft LO repairs to only one bay. If one of the two current bays become inoperable for an extended period of time, the F-22 mission will be critically affected. This will have severe negative affect on support of PACOM's Air Control Alert mission as well as the organic flying mission of the 154th's PAA. The Air Force will have to accept less mission capability due to inadequate LO maintenance and corrosion control facilities at the USAF's most forward 5th-generation fighter location.

ADDITIONAL: Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802(c) and other applicable laws and Executive Orders. This is a late-to-need MILCON effort. This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, “Facility Requirements” and is in compliance with the installation development plan. This facility can be used by other components on an “as available” basis; however, the scope of the project is based on Air National Guard requirements. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the cost efficient over the life of the project.

CatCode		Requirement	Adequate	Substandard
211-159	AIRCRAFT CORROSION CONTROL	5,741 SM	3,066 SM	0 SM

CONSTRUCT LO/CRF BAY ADDITION 928 SM = 9,990 SF
CONSTRUCT ADDITIONAL SHOP SUPPORT AREA139 SM = 1,500 SF

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION
JOINT BASE PEARL HARBOR - HICKAM, HAWAII

5. PROJECT TITLE	7. PROJECT NUMBER
F-22 COMPOSITE REPAIR FACILITY	KNMD159060

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	OCT 2015
(b) Parametric Cost Estimates used to develop costs	YES
(c) Percent Complete as of Jan 2016	10%
* (d) Date 35% Designed	FEB 2016
(e) Date Design Complete	SEP 2016
(f) Type of Design Contract	
(g) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	710
(b) All Other Design Costs	50
(c) Total	760
(d) Contract	760
(e) In-House	
(4) Contract Award (Month/Year)	DEC 2016
(5) Construction Start	JAN 2017
(6) Construction Completion	APR 2018

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

POINT OF CONTACT: NGB/A7AD
(240) 612-8508

1. COMPONENT ANG	**FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE February 2016
3. INSTALLATION AND LOCATION SIOUX GATEWAY AIRPORT/COL BUD DAY FIELD, SIOUX CITY		4. AREA CONSTR COST INDEX .99

5. FREQUENCY AND TYPE OF UTILIZATION
Twenty four monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS
Army Reserve Center – 3rd Battalion 14th Artillery, Area Maintenance Support Activity
Army National Guard – HHC 2d Bn M 133d Inf, Orgn Maint Shop No 3
Naval Reserve Training Center

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-450	Construct Consolidate Support Functions	3,443 SM (37,060 SF)	12,600	Sep 15	Sep 16

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
The Board recommendations are: Unilateral Construction Approved — 09 Feb 15 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)

R&M Unfunded Requirement: $12,000,000

1. COMPONENT	FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION

SIOUX GATEWAY AIRPORT/COL BUD DAY FIELD, SIOUX CITY

11. PERSONNEL STRENGTH AS OF 11 Jun 15

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	803	107	696	0	944	120	824
ACTUAL	816	109	707	0	943	119	824

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
174 Air Refueling Squadron	49	50
185 Aircraft Maintenance Squadron	58	63
185 Air Refueling Wing	49	51
185 Civil Engineering Squadron	91	90
185 Communication Flight	31	34
185 Comptroller Flight	12	13
185 Force Support Squadron	49	46
185 Logistics Readiness Squadron	100	103
185 Medical Group	48	50
185 Mission Support Group	8	8
185 Maintenance Group	15	14
185 MXOF	21	22
185 MXOS	150	151
185 Operations Group	7	7
185 Operations Support Flight	41	38
185 Security Forces Squadron	74	74
TOTALS	803	814

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Support Equipment Power	124	97
Support Equipment Non-Power	120	85
Vehicle Equivalents	442	546
KC-135 Aircraft	8	9

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SIOUX GATEWAY AIRPORT/COL BUD DAY FIELD, IOWA	CONSTRUCT CONSOLIDATED SUPPORT FUNCTIONS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
52276F	171-450	VSSB099014	$12,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSOLIDATE SUPPORT FUNCTIONS	SM	3,443		10,106
ADMIN AND MEDICAL SUPPORT AREAS (171450)	SM	2,653	2,960	(7,853)
DINING & TRAINING FACILITY (722351)	SM	790	2,852	(2,253)
SUPPORTING FACILITIES	LS			650
UTILITIES	LS			(300)
PAVEMENTS	LS			(200)
SITE IMPROVEMENTS	LS			(150)
SUSTAINABLITY AND ENERGY MEASURES	LS			120
DESIGN BUILD (4%)	LS			455
SUBTOTAL				11,331
CONTINGENCY (5%)				567
TOTAL CONTRACT COST				11,898
SUPERVISION, INSPECTION AND OVERHEAD (6%)				713
TOTAL REQUEST				12,611
TOTAL REQUEST (ROUNDED)				12,600

10. Description of Proposed Construction: Construct a consolidated support facility utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special Construction Requirements: Exterior work includes all necessary exterior utilities, access pavements, fire protection, site work, and support.
Air Conditioning: 350 KW.

11. REQUIREMENT: 3,443 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM
PROJECT: Construct Consolidated Support Functions Facility (Current Mission).
REQUIREMENT: The 185th Air Refueling Wing supports 8 PAA KC-135s aircraft. The wing requires an adequately sized and propertly configured space to consolidate numerous administrative and training functions into one facility. This project will allow for the disposal of building 235 and building 263 under a separate effort. Functional areas include: dining hall and services; honor guard; communications, public affairs, audio visual, and medical training.
CURRENT SITUATION: The Wings support fuctions are currently housed in two facilities, building 235 (constructed in 1973) and building 263 (constructed in 1957). Both of these buildings do not provide the required space for the functions to effectively support the training missions. The buildings are poorly configured, have inadequate and undersized utilities support, limited fire protection and poorly insulated with antiquated heating and electrical systems. The existing buildings have exceeded their useful service life and are seeing an increasing number of repair requirements especially in their electical, plumbing, heating/air conditioning and structural systems. An economic anaylsis determined that the best way to correct the deficiencies was to construct a new facility.
IMPACT IF NOT PROVIDED: Continued problems with training and medical support of traditional guard members in their military and wartime contingency requirements due to the lack of space in the

medical facilities. Continued high maintenance and energy costs associated with aging and antiquated mechanical systems being used beyond their economic life and increased facility down time due to lack of proper heating, ventilation, and air conditioning when these mechanical systems fail.

ADDITIONAL: Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802(c) and other applicable laws and Executive Orders. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the cost efficient over the life of the project. This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Requirements" and is in compliance with the installation development plan. Antiterrorism/Force Protection requirements have been considered in the development of this project. The following buildings will be demolished under a separate sustainment, restoration, and modernization project as a result of this project: 235 (at 1,110 SM) and B263 (at 2,036 SM).

CatCode		Requirement	Adequate	Substandard
171-450	RESERVE COMPONENT MEDICAL TRNG	957 SM	0 SM	0 SM
722-351	DINING FACILITY	790 SM	0 SM	0 SM
171-443	RESERVE FORCES GENERAL TRANING	762 SM	0 SM	0 SM
131-111	TELECOMMUNICATIONS FACILITY	808 SM	0 SM	0 SM
141-383	AUDIO VISUAL/GRAPHICS FACILITY	61 SM	0 SM	0 SM
171-445	RESERVE FORCES O&T FACILITY	65 SM	0 SM	0 SM

ADMIN AND MEDICAL SUPPORT AREAS (171450) 2,653 SM = 28,560 SF
DINING HALL (722351) 790 SM = 8,500 SF

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION
SIOUX GATEWAY AIRPORT/COL BUD DAY FIELD, IOWA

5. PROJECT TITLE	7. PROJECT NUMBER
CONSTRUCT CONSOLIDATE SUPPORT FUNCTIONS	VSSB099014

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	SEP 2015
(b) Parametric Cost Estimates used to develop costs	YES
(c) Percent Complete as of Jan 2016	35%
* (d) Date 35% Designed	JAN 2016
(e) Date Design Complete	SEP 2016
(f) Type of Design Contract	DB
(g) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard or Definitive Design -	No
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	425
(b) All Other Design Costs	25
(c) Total	450
(d) Contract	450
(e) In-House	
(4) Contract Award (Month/Year)	FEB 2017
(5) Construction Start	APR 2017
(6) Construction Completion	OCT 2018

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

POINT OF CONTACT: NGB/A7AD
(240) 612-7663

1. COMPONENT ANG	**FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE February 2016
3. INSTALLATION AND LOCATION DULUTH INTERNATIONAL AIRPORT, DULUTH		4. AREA CONSTR COST INDEX 1.13

5. FREQUENCY AND TYPE OF UTILIZATION

One (1) unit training assembly per month, One (1) split unit training assembly per month, 15 days annual field training per year, daily use by technician/AGR force and for training and alert.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS

Three Army National Guard Armories and two Army Reserve units.

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
215-552	Load Crew Training/Weapon Shops	2,193 SM (23,600 SF)	7,600	Jul 14	Sep 16

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

The Board recommendations are: Unilateral Construction Approved — 16 Mar 15 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)
442-758	Convert to Base Supply Warehouse	2,143 SM (23,072 SF)	4,000
	R&M Unfunded Requirement: $10,000,000		

1. COMPONENT	FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION

DULUTH INTERNATIONAL AIRPORT, DULUTH

11. PERSONNEL STRENGTH AS OF 30 Apr 15

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	399	36	335	28	981	104	877
ACTUAL	406	34	348	24	1,004	116	888

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
148 Aircraft Maintenance Squadron	170	159
148 Civil Engineering Squadron	105	98
148 Communication Flight	31	38
148 Comptroller Flight	12	13
148 Force Support Squadron	59	56
148 Fighter Wing	45	46
148 Logistics Readiness Squadron	77	81
148 Medical Group	51	58
148 Maintenance Operations Flight	23	19
148 Mission Support Group	8	9
148 Maintenance Group	19	17
148 Maintenance Squadron	210	192
148 Operations Group	5	4
148 Operations Support Flight	40	36
148 Security Forces Squadron	74	71
148 Student Flight	18	73
179 Fighter Squadron	34	34
TOTALS	981	1,004

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Total Vehicles	130	130
Vehicle Equivalents	366	383
F-16 Aircraft	18	22
Support Equipment	241	241

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DULUTH INTERNATIONAL AIRPORT, MINNESOTA	LOAD CREW TRAINING/WEAPON SHOPS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
52276F	215-552	FMKM089018	$7,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MUNITIONS LOAD TRAINING/WEAPONS RELEASE	SM	2,193		5,116
MUNITIONS LOAD CREW TRAINING AREA (171875)	SM	762	2,368	(1,804)
WEAPONS RELEASE SYSTEMS SHOP AREA (215552)	SM	1,431	2,314	(3,311)
SUPPORTING FACILITIES	LS			1,534
UTILITIES	LS			(210)
PAVEMENTS	LS			(370)
SITE IMPROVEMENTS	LS			(200)
COMMUNICATIONS SUPPORT	LS			(90)
DEMOLITION/ASBESTOS REMOVAL	SM	1,021	161	(164)
FIRE SUPPRESSION SUPPORT	LS			(500)
SUSTAINABILITY AND ENERGY MEASURES	LS			160
SUBTOTAL				6,810
CONTINGENCY (5%)				341
TOTAL CONTRACT COST				7,151
SUPERVISION, INSPECTION AND OVERHEAD (6%)				429
TOTAL REQUEST				7,580
TOTAL REQUEST (ROUNDED)				7,600

10. Description of Proposed Construction: Construct an ANG Load Crew Training and Weapons Release facility utilizing conventional design and construction methods to accommodate the mission of the facility. Facility shall be designed as permanent construction in accordance with the DOD Unified Facilities Criteria. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Provide access pavements, aircraft apron, utilities and supporting site work. Demolish building and landscape the sites.
Air Conditioning: 462 KW.

11. REQUIREMENT: 2,109 SM ADEQUATE: 0 SM SUBSTANDARD: 1,021 SM
PROJECT: Munitions Load Training and Weapon Release Shop (Current Mission).
REQUIREMENT: The 148th Fighter Wing requires a properly sized and configured munitions load crew training facility and a weapons and release systems shop supporting 15-PAA F-16 aircraft. The load crew training facility is required to accommodate one F-16 aircraft, weapons load pallets, load crew equipment, personnel, and workspace to maneuver safely and efficiently around aircraft during load training operations. The space requirement includes a 20-person classroom and a loading standardization office area. The weapons release systems shop provides space for the overhaul and repair of fighter aircraft weapons release and gun systems that include, but are not limited to, bomb racks, weapons pylons, ejection racks, aircraft gun systems, etc. The area must also provide shop and tool space for the maintenance/upkeep of weapons loading tools and equipment, as well as dispatch to the flight line. In addition, the facility requires space for gun and/or ejector unit cleaning, maintenance offices, a dispatch office, and bench stock, as well as storage space for test equipment, alternate mission equipment (AME), spare gun systems, and mobility equipment.
CURRENT SITUATION: The Wing does not have a munitions loading crew training facility, which requires the training to be accomplished outside on the apron, weather permitting, in less than ideal

learning conditions. Training effort is impractical, unsafe and wasteful. The Wing's weapons and release systems shop is drastically undersized and is poorly situated and requires co-location with the munitions loading crew training facility. The shortage of space presents inefficient conditions in which to work. A lack of storage space allows for a cramped working environment and subjects personnel and valuable mobility assets to damaging elements. Indirect apron access further degrades and complicates maintenance operations.

IMPACT IF NOT PROVIDED: Accept risk to mission training due to lack of facility for training. Lack of operational training facilities could result in the unit being unable to respond fully to an operational situation, as well as a serious deficiency to the unit's ability to operate in a contingency situation. Operations continue to be performed under conditions that make it very difficult to comply within prescribed safety regulations and procedures. This increases the risk of a mishap causing harm/injury to personnel and facilities. The Weapons and Release Systems Shop's lack of adequate space continues to significantly impact operating conditions, as well as expose personnel and equipment to injury and damage. The indirect apron access continues to delay and degrade maintenance operations and capability.

ADDITIONAL: This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Requirements" and is in compliance with the base master plan. Antiterrorism/Force Protection requirements have been considered in the development of this project. These facilities are "inhabited" buildings and meet the standoff distance requirements. There is minimal threat and the level of protection is low so minimum construction standards have been applied. This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air National Guard requirements. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802(c) and other applicable laws and Executive Orders. This project will result in the demolition of building 219 at 10,986 SF .

CatCode		Requirement	Adequate	Substandard
171-875	MUNITIONS LOAD CREW TRAINING	771 SM	0 SM	0 SM
215-552	WEAPONS & RELEASE SYSTEMS SHOP	1,338 SM	0 SM	1,021 SM

MUNITIONS LOAD CREW TRAINING AREA (171875)762 SM = 8,200 SF
WEAPONS RELEASE SYSTEMS SHOP AREA (215552)1,431 SM = 15,400 SF
DEMOLITION/ASBESTOS REMOVAL 1,021 SM = 10,986 SF

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION
DULUTH INTERNATIONAL AIRPORT, MINNESOTA

5. PROJECT TITLE	7. PROJECT NUMBER
LOAD CREW TRAINING/WEAPON SHOPS	FMKM089018

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	JUL 2014
(b) Parametric Cost Estimates used to develop costs	No
(c) Percent Complete as of Jan 2016	60%
* (d) Date 35% Designed	MAY 2015
(e) Date Design Complete	SEP 2016
(f) Type of Design Contract	
(g) Energy Study/Life-Cycle analysis was/will be performed	No
(2) Basis:	
(a) Standard or Definitive Design -	No
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	617
(b) All Other Design Costs	50
(c) Total	668
(d) Contract	668
(e) In-House	
(4) Contract Award (Month/Year)	NOV 2016
(5) Construction Start	MAR 2017
(6) Construction Completion	JUN 2018

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

POINT OF CONTACT: NGB/A7AD
(240) 612-4498

1. COMPONENT ANG	**FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE February 2016
3. INSTALLATION AND LOCATION PEASE INTERNATIONAL TRADEPORT ANG, PORTSMOUTH		4. AREA CONSTR COST INDEX 1.07

5. FREQUENCY AND TYPE OF UTILIZATION

Daily use by Technician, AGR, Active Duty force for mission and base operation, Unit Training Assembly and Secondary Unit Training Assembly weekends each month, 15 Annual Training days per year per member.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS

One (1) Naval Shipyard, one (1) Army Reserve RC, Three (3) National Guard RCs, One (1) Coast Guard facility

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-212	KC-46A Install Fuselage Trainer Bldg 251	2,788 SM (30,007 SF)	1,500	Aug 13	Sep 14

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

The Board recommendations are: Unilateral Construction Approved — 20 May 15 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)
179-475	Indoor Small Arms Range	21 FP (21 FP)	8,200
	R&M Unfunded Requirement: $58,549,000		

1. COMPONENT	FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION

PEASE INTERNATIONAL TRADEPORT ANG, PORTSMOUTH

11. PERSONNEL STRENGTH AS OF 29 May 15

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	480	38	223	219	1,021	158	863
ACTUAL	480	38	223	219	1,131	175	956

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
64 Air Refueling Squadron	127	131
133 Air Refueling Squadron	50	68
157 Aircraft Maintenance Squadron	66	64
157 Air Refueling Wing	49	49
157 Civil Engineering Squadron	91	104
157 Communication Flight	32	33
157 Comptroller Flight	12	12
157 Force Support Squadron	40	48
157 HQ ANG	35	37
157 Logistics Readiness Squadron	107	120
157 Medical Group	98	99
157 Maintenance Operations Flight	21	21
157 Mission Support Group	8	12
157 Maintenance Group	16	15
157 Maintenance Squadron	158	171
157 Operations Flight	42	48
157 Operations Group	11	12
157 Security Forces Squadron	74	72
157 Student Flight	20	62
260 Air Traffic Control Squadron	90	101
TOTALS	1,147	1,279

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
KC-135R Aircraft	8	9
Vehicle Equivalents	619	607
Vehicles	162	155

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
PEASE INTERNATIONAL TRADEPORT ANG, NEW HAMPSHIRE	KC-46A INSTALL FUSELAGE TRAINER BLDG 251

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
51413F	171-212	SZCQ139902	$1,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FUSELAGE TRAINER	SM	2,788		1,322
ALTER SPACE FOR FUSELAGE TRAINER	SM	2,788	474	(1,322)
SUSTAINABILITY AND ENERGY MEASURES	LS			22
SUBTOTAL				1,344
CONTINGENCY (5%)				67
TOTAL CONTRACT COST				1,411
SUPERVISION, INSPECTION AND OVERHEAD (6%)				84
TOTAL REQUEST				1,495
TOTAL REQUEST (ROUNDED)				1,500

10. Description of Proposed Construction: Alter and repair existing hangar to support a KC-46 fuselage training function utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special construction requirements: Repair supporting utilities, infrastructure and pavements. Alter space for aircraft fuselage trainer.
Air Conditioning: 525 KW.

11. REQUIREMENT: 2,788 SM ADEQUATE: 0 SM SUBSTANDARD: 2,788 SM
PROJECT: KC-46A Install Fuselage Trainer (New Mission).
REQUIREMENT: An adequate facility properly sized and configured to house the KC-46A fuselage trainer. The AF has designated Pease ANGB an operational base for the first Air National Guard KC-46A tanker aircraft squadron beddown. The first aircraft are expected to be delivered in the first quarter of FY18 and the fuselage trainer itself will be delivered in the second quarter of FY18. The fuselage trainer will allow aircraft cargo handling and loadmaster part-task training requierments to be fully met. The facility should be operational prior to delivery of the fuselage trainer equipment..
CURRENT SITUATION: The KC-46A is a new aircraft acquisition replacing the KC-135. Additional part-task training equipment items are required that did not exist for the KC-135 mission. Existing facilities are not adequately configured for the new training components and must be converted for the new function.
IMPACT IF NOT PROVIDED: Cost and time to conduct required training of KC-46 load crews and loadmasters will increase. Aircrews will require travel to other installations to conduct training. The lack of adequate training facilities increase the potential for significant degradation of mission readiness and performance. There are no other facilities or cost-effective workarounds available to accommodate this requirement to support the new mission. Without this facility, the Air Force will incur costs to store and/or re-direct the fuselage trainer equipment.
ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084 "Facility Requirements" and the KC-46A Facility Requirements Plan. Sustainable principles will be integrated into design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive orders. This space can be used by

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

CatCode		Requirement	Adequate	Substandard
171-212	FLGHT SIMULATOR TRAINING	2,788 SM	0 SM	2,788 SM

ALTER SPACE FOR FUSELAGE TRAINER 2,788 SM = 30,007 SF

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION
PEASE INTERNATIONAL TRADEPORT ANG, NEW HAMPSHIRE

5. PROJECT TITLE	7. PROJECT NUMBER
KC-46A INSTALL FUSELAGE TRAINER BLDG 251	SZCQ139902

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	AUG 2013
(b) Parametric Cost Estimates used to develop costs	YES
(c) Percent Complete as of Jan 2016	100%
* (d) Date 35% Designed	APR 2014
(e) Date Design Complete	SEP 2014
(f) Type of Design Contract	
(g) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard or Definitive Design -	No
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	20
(b) All Other Design Costs	100
(c) Total	120
(d) Contract	120
(e) In-House	
(4) Contract Award (Month/Year)	OCT 2016
(5) Construction Start	DEC 2016
(6) Construction Completion	JAN 2018

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENNCLATURE	PROCURING APPROPRIATION	FISCAL YEAR OF APPROPRIATION	COST ($000)
KC-46A Fuselage Trainer	3010	16	6,500

POINT OF CONTACT: NGB/A7AD
(240) 612-4498

1. COMPONENT	**FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. AREA CONSTR COST INDEX
CHARLOTTE/DOUGLAS INTERNATIONAL AIRPORT, CHARLOTTE	.83

5. FREQUENCY AND TYPE OF UTILIZATION

Daily operations, maintenance and training. Two unit training assemblies per month, 15 days annual field training per year, daily use by full-time technicians/AGR force for training and amintenance of assigned aircraft, facilities, and equipment.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS

1 Army National Guard, 1 Army Reserve, 1 Navy Reserve

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
211-179	C-17 Corrosion Control/Fuel Cell Hangar	6,596 SM	$29,600	Jan 16	Dec 16
124-135	C-17 Type III Hydrant Refueling System	1,192 M3	$21,000	Jan 16	Dec 16

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

The Board recommendations are: Unilateral Construction Approved — 28 May 15 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)
171-445	Operations and Training Facility	1,988 SM (21,400 SF)	6,600
	R&M Unfunded Requirement: $4,702,000		

1. COMPONENT ANG	**FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE February 2016

3. INSTALLATION AND LOCATION

CHARLOTTE/DOUGLAS INTERNATIONAL AIRPORT, CHARLOTTE

11. PERSONNEL STRENGTH AS OF 03 Feb 15

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	312	48	260	4	1,102	202	900
ACTUAL	290	41	245	4	1,146	212	934

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
145 Airlift Wing	44	46
145 Civil Engineering Squadron	107	121
145 Communication Flight	31	35
145 Comptroller Flight	12	10
145 DET1	1	1
145 Force Support Squadron	53	59
145 HQNC	23	25
145 Logistics Readiness Squadron	122	130
145 Medical Group	71	76
145 Maintenance Operations Flight	21	21
145 Mission Support Group	8	7
145 Maintenance Group	12	11
145 Maintenance Squadron	156	150
145 Operations Group	10	8
145 Security Forces Squadron	74	81
145 Student Flight	27	4
156 Airlift Squadron	125	126
156 Aeromedical Evacuation Squadron	88	93
156 Aircraft Maintenance Squadron	68	68
156 Operations Support Flight	48	52
245 Civil Engineering Flight	25	26
TOTALS	1,126	1,150

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Vehicles	98	98
Aviation Refuel Vehicles	3	3
C-130 Aircraft	10	10
Support Equipment	195	170
Vehicle Equivalents	327	327

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CHARLOTTE/DOUGLAS INTERNATIONAL AIRPORT, NORTH CAROLINA	C-17 CORROSION CONTROL/FUEL CELL HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
54121F	211-179	FJRP159062	$29,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 CORROSION CONTROL HANGAR	SM	6,596		21,956
FUEL CELL HANGAR/SHOPS (211179)	SM	4,274	3,369	(14,399)
CORROSION CONTROL SHOPS (211159)	SM	743	4,155	(3,087)
COMPOSITE SHOP (211159)	SM	650	2,831	(1,840)
FLIGHT SIMULATOR/TRAINING SPACES (171-212)	SM	929	2,831	(2,630)
SUPPORTING FACILITIES				4,438
SITE IMPROVEMENTS AND PAVEMENTS	LS			(1,001)
FIRE PROTECTION	LS			(834)
COMMUNICATIONS SUPPORT	LS			(300)
UTILITIES	LS			(800)
PILE FOUNDATION	LS			(450)
ENVIRONMENTAL CONTROLS	LS			(1,053)
SUSTAINABILITY AND EMERGY MEASURES	LS			200
SUBTOTAL				26,594
CONTINGENCY (5%)				1,330
TOTAL CONTRACT COST				27,924
SUPERVISION, INSPECTION AND OVERHEAD (6%)				1,675
TOTAL REQUEST				29,599
TOTAL REQUEST (ROUNDED)				29,600

10. Description of Proposed Construction: Construct a fuel cell/corrosion control facility utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special Construction requirements: Secure construction for flight simulator training.
Air Conditioning: 175 KW.

11. REQUIREMENT: 6,596 SM ADEQUATE: 0 SM SUBSTANDARD: 2,899 SM
PROJECT: C-17 Corrosion Control/Fuel Cell Hangar/Simulator/Shops (New Mission).
REQUIREMENT: The 145th Airlift Wing is scheduled to convert from C-130 to C-17 aircraft in fiscal year 2018. The base requires an adequate facility for C-17 corrosion control and fuel cell functions, as well as shop areas to accommodate maintenance and training on composite materials, and an area for flight crew simulator training. The C-17 aircraft has a 60-day scheduled wash cycle requirement. Its many exterior surfaces are comprised of composite materials, which require frequent maintenance and spot painting to prevent structural damage. To provide climatic temperature control, supply hot water, and control pollutants, an enclosed facility is necessary for washing the aircraft, and performing corrosion control and maintenance. This facility must have sufficient lighting, heating, ventilation, fire protection/suppression, and environmental systems to effectively and safely support the mission. To provide the aircrews with necessary proficiency training the facility will provide an area to house a full motion flight simulator with the capability to handle secure information.

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ANG	(computer generated)	February 2016

3. INSTALLATION AND LOCATION

CHARLOTTE/DOUGLAS INTERNATIONAL AIRPORT, NORTH CAROLINA

5. PROJECT TITLE	7. PROJECT NUMBER
C-17 CORROSION CONTROL/FUEL CELL HANGAR	FJRP159062

CURRENT SITUATION: The 145 AW does not have a facility which can support the full enclosure necessary for C-17 corrosion control and fuel cell requirements. There are no suitable workarounds. The C-17 aircraft has many exterior surfaces which utilize composite materials whereas the C-130 does not have any. The 145 AW also does not have a composite materials shop or excess space that can be converted for that purpose. There are only two covered aircraft maintenance facilities on base, neither of which can be used for corrosion control on the C-17. One is the hangar which will be upgraded and reused as a hangar. The other facility is the fuel cell nose dock which would require extensive work, but could only be reused as a partially-enclosed C-17 fuel cell. A new facility would serve as both fuel cell and corrosion control. A total of two covered spaces are required to support the C-17 maintenance requirement. The 145 AW does not have a simulator facility or excess space that can be converted for that porpose. The base has moderate soil conditions and a steep elevation changes. The proposed building site requires reinforced foundations, drainage improvements, pavements and utilities.
IMPACT IF NOT PROVIDED: The C-17 Service Life Policy contract will be voided if the corrosion control and maintenance requirements intended to be performed in this proposed facility are not accomplished. The work cannot be performed outside on the parking apron. Cleaning agents, corrosion treatment chemicals, and paint removers would not be allowed to properly cure on the aircraft. Pollutants would not be properly captured and controlled. Corrosion control would have to be performed at another site several hundred miles away. This very costly work-around will also negatively impact operational training, and maintenance schedules. Accept risk to airlift deployments and training operations. Simulation training would require costly and time consuming work-arounds by sending crews to alernate locations to accomplished required proficiencies. Simulation training would require costly and time consuming work-arounds by sending crews to alternate locations, such as Jackson, Mississippi to accomplished required proficiencies.
ADDITIONAL: This project meets the criteria/scope specified in the AF Handbook 32-1084, “Facility Requirements”. Antiterrorism/Force Protection requirements have been considered in the development of this project. This facility can be used by other components on an “as available” basis; however, the scope of the project is based on Air National Guard requirements. An economic analysis is being prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802(c) and other applicable laws and Executive Orders.

CatCode		Requirement	Adequate	Substandard
211-159	AIRCRAFT CORROSION CONTROL	1,394 SM	0 SM	576 SM
211-179	FUEL SYSTEM MAINTENANCE DOCK	4,274 SM	0 SM	2,323 SM
171-212	FLGHT SIMULATOR TRAINING	929 SM	0 SM	0 SM

CORROSION CONTROL SHOPS (211159) 743 SM = 8,000 SF
COMPOSITE SHOP (211159) 650 SM = 7,000 SF
FLIGHT SIMULATOR/TRAINING SPACES (171-212)929 SM = 10,000 SF
FUEL CELL HANGAR/SHOPS (211179) 4,274 SM = 46,000 SF

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION
CHARLOTTE/DOUGLAS INTERNATIONAL AIRPORT, NORTH CAROLINA

5. PROJECT TITLE	7. PROJECT NUMBER
C-17 CORROSION CONTROL/FUEL CELL HANGAR	FJRP159062

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	JAN 2016
(b) Parametric Cost Estimates used to develop costs	NO
(c) Percent Complete as of Jan 2016	10%
* (d) Date 35% Designed	MAR 2016
(e) Date Design Complete	DEC 2016
(f) Type of Design Contract	
(g) Energy Study/Life-Cycle analysis was/will be performed	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	900
(b) All Other Design Costs	260
(c) Total	1,160
(d) Contract	1,160
(e) In-House	
(4) Contract Award (Month/Year)	MAR 2017
(5) Construction Start	MAY 2017
(6) Construction Completion	SEP 2018

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

POINT OF CONTACT: NGB/A7AD
(240) 612-8767

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CHARLOTTE/DOUGLAS INTERNATIONAL AIRPORT, NORTH CAROLINA	C-17 TYPE III HYDRANT REFUELING SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
54121F	124-135	FJRP159073	$21,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSTRUCT HYDRANT REFUEL SYSTEM	LS	12,564		16,468
HYDRANT PITS AND PIPING (121-212)	OL	5	1,700,000	(8,500)
TYPE III FUEL PUMP SYS/OPS STORAGE (124-135)	M3	715	6,604	(4,722)
LIQUID FUEL PUMP STATION (125-977)	SM	139	3,229	(449)
RAMP EXPANSION (113-321)	SM	11,705	239	(2,797)
SUPPORTING FACILITIES				2,425
DRAINAGE IMPROVEMENTS	LS			(275)
DEMOLISH EXISTING TANKS	LS			(400)
UTILITIES IMPROVEMENTS	LS			(400)
SITE IMPROVEMENTS	LS			(350)
SOIL REMEDIATION/DISPOSAL	LS			(750)
RAMP LIGHTING	LS			(250)
SUBTOTAL				18,893
CONTINGENCY (5%)				945
TOTAL CONTRACT COST				19,838
SUPERVISION, INSPECTION AND OVERHEAD (6%)				1,190
TOTAL REQUEST				21,028
TOTAL REQUEST (ROUNDED)				21,000

10. Description of Proposed Construction: Construct a Type III hydrant refueling system with bulk storage and provide hydrant refueling pits utilizing conventional design and construction methods to accommodate the mission of the facility. Expand ramp to meet criteria for C-17 parking and taxi lanes. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special Construction Requirements: Demolish existing POL system/tanks/piping in the footprint of construction; mitigate wetlands/remediate soil at fuel tank site.

11. REQUIREMENT: 1,192 M3 ADEQUATE: 0 M3 SUBSTANDARD: 795 M3

PROJECT: C-17 Hydrant Refueling Pits and Fuel Pumping System (New Mission).

REQUIREMENT: The project supports the conversion of one squadron of 8 PAI C-130 aircraft to 8 PAI C-17 aircraft. The base requires a properly sized ramp, hydrant refueling system and fuel storage for the C-17 aircraft. The minimum mission based total storage requirement is 315,000 gallons (7,500 barrels) in at least two (2) tanks conforming to all federal, state, and local environmental regulations. Provision of a single expanded footprint tank, so that tanks may be of different final sizes, may be preferable to demolition/reconstruction of both tanks.

CURRENT SITUATION: The existing fuel system is undersized and not configured properly for the C-17. Hydrant pits do not exist on the apron. The apron will require expansion and modifications to storm drainage system and ramp lights.The utilities in the path of construction must be extended and relocated.

IMPACT IF NOT PROVIDED: Unable to provide adequate fuel to the 8 assigned C-17 aircraft. Unable to provide required parking for the assigned aircraft. Accept risk to deployment and training mission.

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ANG	(computer generated)	February 2016

3. INSTALLATION AND LOCATION

CHARLOTTE/DOUGLAS INTERNATIONAL AIRPORT, NORTH CAROLINA

5. PROJECT TITLE	7. PROJECT NUMBER
C-17 TYPE III HYDRANT REFUELING SYSTEM	FJRP159073

ADDITIONAL: This project meets the criteria/scope specified in ANG Handbook 32-1084, "Facility Requirements" and is in compliance with the base master plan. Antiterrorism/Force Protection requirements have been considered in the development of this project. An economic analysis is being prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802(c) and other applicable laws and Executive Orders. This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air National Guard requirements.

CatCode		Requirement	Adequate	Substandard
125-977	LIQUID FUEL PUMP STATION	139 SM	0 SM	0 SM
124-135	JET FUEL STORAGE	1,192 m3	0 m3	795 m3
121-122	HYDRANT FUELING SYSTEM	5 OL	0 OL	0 OL

TYPE III FUEL PUMP SYS/OPS STORAGE (124-135)1,192 M3 = 7,500 BL
LIQUID FUEL PUMP STATION (125-977) 139 SM = 1,500 SF

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION
CHARLOTTE/DOUGLAS INTERNATIONAL AIRPORT, NORTH CAROLINA

5. PROJECT TITLE	7. PROJECT NUMBER
C-17 TYPE III HYDRANT REFUELING SYSTEM	FJRP159073

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	JAN 2016
(b) Parametric Cost Estimates used to develop costs	No
(c) Percent Complete as of Jan 2016	10%
* (d) Date 35% Designed	MAR 2016
(e) Date Design Complete	DEC 2016
(f) Type of Design Contract	
(g) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	930
(b) All Other Design Costs	465
(c) Total	1,395
(d) Contract	1,395
(e) In-House	
(4) Contract Award (Month/Year)	MAR 2017
(5) Construction Start	MAY 2017
(6) Construction Completion	SEP 2018

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

POINT OF CONTACT: NGB/A7AD
(240) 612-8767

1. COMPONENT	**FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. AREA CONSTR COST INDEX
MCENTIRE JOINT NATIONAL GUARD BASE, EASTOVER	.86

5. FREQUENCY AND TYPE OF UTILIZATION

Twelve monthly unit assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training, flight training 4-7 days per week, deployment preparation and recovery; Air Force, Army and Marine tactical exercises, use

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS

1 Active Army Base, 6 Army National Guard Armories, 1 Army National Guard Training Center, 1 Marine Corp Reserve Armory, 1 Army National Guard Combined Support maintenance Shop (CSMS), 1 Army Aviation Support Facility, 1 Army National Guard State Headqua

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-445	Replace Operations and Training Facility	1,961 SM (21,100 SF)	8,400	Jun 15	Sep 16

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

The Board recommendations are: Unilateral Construction Approved — 05 Aug 15 (Date)

9. LAND ACQUISITION REQUIRED — 0 (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)
130-142	Add to Fire Station	652 SM (7,015 SF)	1,950
217-713	Add to ECM Pod Shop	913 SM (9,826 SF)	2,700
171-476	Construct CATS and CATM	279 SM (3,000 SF)	1,250

R&M Unfunded Requirement: $24,235,000

1. COMPONENT	FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION

MCENTIRE JOINT NATIONAL GUARD BASE, EASTOVER

11. PERSONNEL STRENGTH AS OF 27 May 15

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	766	63	621	82	1,320	135	1,185
ACTUAL	660	59	526	75	1,365	130	1,235

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
169 Operations Support Squadron	53	56
157 Fighter Squadron	43	40
169 Aircraft Maintenance Squadron	261	244
169 Civil Engineering Squadron	91	93
169 Communication Flight	45	53
169 Comptroller Flight	12	12
169 DET1	93	91
169 Force Support Squadron	57	60
169 Fighter Wing	57	53
169 Logistics Readiness Squadron	77	78
169 Medical Group	51	59
169 Maintenance Operations Flight	23	21
169 Mission Support Group	8	10
169 Maintenance Group	19	14
169 Maintenance Squadron	290	270
169 Operations Group	5	5
169 Operations Support Flight	54	50
169 Security Forces Squadron	74	75
169 Student Flight	27	107
245 Air Traffic Control Squadron	95	82
HQ JFHQ	32	33
TOTALS	1,467	1,506

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Vehicles	138	132
F-16 C/D Aircraft	24	28
Support Equipment	273	263
Vehicle Equivalents	346	340

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCENTIRE JOINT NATIONAL GUARD BASE, SOUTH CAROLINA	REPLACE OPERATIONS AND TRAINING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
52276F	171-445	PSTE009070	$8,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
OPERATIONS AND TRAINING FACILITY	SM	1,960		6,307
OPERATIONS AND TRAINING AREA	SM	1,960	3,218	(6,307)
SUPPORTING FACILITIES				1,169
UTILITIES	LS			(141)
PAVEMENTS	LS			(111)
SITE IMPROVEMENTS/DRAINAGE IMPROVEMENTS	LS			(221)
COMMUNICATIONS SUPPORT	LS			(178)
DEMOLITION/ASBESTOS REMOVAL	SM	1,688	183	(309)
FIRE PROTECTION SUPPORT	LS			(209)
SUSTAINABILITY AND ENERGY MEASURES	LS			112
SUBTOTAL				7,588
CONTINGENCY (5%)				379
TOTAL CONTRACT COST				7,967
SUPERVISION, INSPECTION AND OVERHEAD (6%)				478
TOTAL REQUEST				8,445
TOTAL REQUEST (ROUNDED)				8,400

10. Description of Proposed Construction: Construct an Operations and Training Facility utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special Construction Requirements: Demolish existing building and landscape the site. Install utility metering and connect to Direct Digital Control System.
Air Conditioning: 420 KW.

11. REQUIREMENT: 1,960 SM ADEQUATE: 0 SM SUBSTANDARD: 1,841 SM
PROJECT: Replace Operations and Training Facility (Current Mission).
REQUIREMENT: The 169th Fighter Wing requires a properly sited, adequately sized, and appropriately configured facility for operations and training needs and audio visual space in support of 24-PAA F-16 aircraft. Functional areas include office spaces, administrative areas, classrooms, storage, auditorium, and latrine/break areas and support space for the Operations and Training, Honor Guard, and Audio-Visual activities.
CURRENT SITUATION: The operations and training and audio visual functions are inefficiently dispersed among 6 buildings. The comptroller, accounting and finance, and military pay are separated from the wing staff. The audio visual services center is poorly positioned in building 253, an Aircraft Maintenance Hangar. A training area for the Honor Guard does not exist. Logistics Plans and Family Support are geographically separated from most operations and training functions, which are located in the headquarters building 252. This facility was constructed in 1966 and has aged considerably. It is energy inefficient, maintenance intensive, and poorly sited and configured to effectively support the base mission which has evolved since the 1960's. There are many health, safety, and fire deficiencies including a risk assessment code 2. The facility has significant building envelope defects that are

maintenance intensive that cannot be economically corrected. Training opportunities are lost due to organizational inefficiencies brought on by disjointed operations, and training rooms that are too few and too small. The Recruiting area lacks space and privacy for interviewing potential recruits. Administrative space is inefficiently laid out. Available space does not comply with the provisions of the Americans with Disabilities Act. The mechanical and electrical systems are not energy efficient, are unreliable and expensive to operate and maintain and produce poor indoor air quality. Building 252 is not a quality work and training space and will be demolished. The space in the other buildings will be reused for space shortages within other related functional areas.

IMPACT IF NOT PROVIDED: Training opportunities are lost due to organizational inefficiencies driven by dispersed operating locations. Command and control is stymied by difficult coordination and communication with key staff functions dispersed among several dysfunctional buildings. Valuable high demand space will be sacrificed for Honor Guard training and administrative operations. Customer service is hampered by an inability to provide collocated services. Health, safety and fire deficiencies continue. Operations and maintenance costs for sustainment and emergency repair will continue to increase.

ADDITIONAL: This project meets the criteria/scope specified in ANG Handbook 32-1084, "Facility Requirements" and is in compliance with the base master plan. This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air National Guard requirements. Antiterrorism force protection requirements have been addressed. This facility is a primary gathering facility and meets the AT/FP standoff distance requirements. There is minimal threat and the level of protection is low so minimum construction standards have been applied. Upon completion of this project, Building 252 at 1,688 SM will be demolished. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802(c) and other applicable laws and Executive Orders. An economic analysis is being prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation.

CatCode		Requirement	Adequate	Substandard
171-445	RESERVE FORCES O&T FACILITY	1,533 SM	0 SM	1,688 SM
171-443	RESERVE FORCES GENERAL TRANING	242 SM	0 SM	0 SM
141-383	AUDIO VISUAL/GRAPHICS FACILITY	186 SM	0 SM	152 SM

OPERATIONS AND TRAINING AREA	1,960 SM = 21,100 SF
DEMOLITION/ASBESTOS REMOVAL	1,688 SM = 18,169 SF

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION
MCENTIRE JOINT NATIONAL GUARD BASE, SOUTH CAROLINA

5. PROJECT TITLE	7. PROJECT NUMBER
REPLACE OPERATIONS AND TRAINING FACILITY	PSTE009070

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	JUN 2015
(b) Parametric Cost Estimates used to develop costs	NO
(c) Percent Complete as of Jan 2016	35%
* (d) Date 35% Designed	JAN 2016
(e) Date Design Complete	SEP 2016
(f) Type of Design Contract	
(g) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard or Definitive Design -	No
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	600
(b) All Other Design Costs	140
(c) Total	740
(d) Contract	740
(e) In-House	
(4) Contract Award (Month/Year)	DEC 2016
(5) Construction Start	MAR 2017
(6) Construction Completion	JAN 2019

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

POINT OF CONTACT: NGB/A7AD
(240) 836-7042

1. COMPONENT	**FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE
ANG		February 2016
3. INSTALLATION AND LOCATION		4. AREA CONSTR COST INDEX
ELLINGTON FIELD, HOUSTON		.85

5. FREQUENCY AND TYPE OF UTILIZATION

Two Unit Training Assemblies per month, 15 days annual field training per year, daily use by AGR/Technician force for training and combat mission.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS

Three (3) Army Reserve Facilities, Four (4) Army National Guard Armories, One (1) Navel Reserve Facility, One (1) Marine Corps Reserve Facility, and One (1) Coast Guard Facility

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
141-459	Consolidate Crew Readiness Facility	1,403 SM (15,100 SF)	4,500	Sep 15	Mar 16

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

The Board recommendations are: Unilateral Construction Approved — 26 Apr 15 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)
730-835	Replace Security Forces Facility	1,617 SM (17,400 SF)	5,800
171-445	Replace Operations and Training Facility	1,988 SM (21,400 SF)	6,000
	R&M Unfunded Requirement: $18,530,000		

1. COMPONENT	FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION

ELLINGTON FIELD, HOUSTON

11. PERSONNEL STRENGTH AS OF 17 May 15

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	161	13	144	4	1,008	162	846
ACTUAL	156	16	136	4	1,031	143	888

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
111 Reconnaissance Squadron	106	100
111 Weather Flight	8	8
147 Aircraft Maintenance Squadron	119	122
147 Air Support Operations Squadron	66	53
147 Civil Engineering Squadron	97	93
147 Communication Flight	31	32
147 Comptroller Flight	12	14
147 Force Support Squadron	51	52
147 Logistics Readiness Squadron	54	58
147 Medical Group	48	54
147 Maintenance Operations Flight	12	12
147 Mission Support Group	8	7
147 Maintenance Group	13	12
147 Operations Group	17	14
147 Operations Support Squadron	110	90
147 Reconnaissance Wing	49	48
147 Security Forces Squadron	74	66
147 Student Flight	19	83
272 Engineering Installation Squadron	114	113
TOTALS	1,008	1,031

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Vehicles	219	193
Vehicle Equivalents	480	472
Aero Grnd Equipment	180	167
MQ-1B Predator Aircraft	12	12
RC-26 Aircraft	1	1

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELLINGTON FIELD, TEXAS	CONSOLIDATE CREW READINESS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
52276F	141-459	FWJH099082	$4,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSOLIDATE CREW READINESS FACILITY, 1397	SM	1,403		3,462
ALTER BUILDING 1397	SM	604	2,002	(1,209)
ADD TO BUILDING 1397	SM	799	2,820	(2,253)
SUPPORTING FACILITIES				506
UTILITIES	LS			(69)
PAVEMENTS	LS			(139)
SITE IMPROVEMENTS	LS			(32)
COMMUNICATIONS SUPPORT	LS			(58)
TEMPORARY FACILITIES	LS			(208)
SUSTAINABILITY AND ENERGY MEASURES	LS			69
SUBTOTAL				4,037
CONTINGENCY (5%)				202
TOTAL CONTRACT COST				4,239
SUPERVISION, INSPECTION AND OVERHEAD (6%)				254
TOTAL REQUEST				4,493
TOTAL REQUEST (ROUNDED)				4,500

10. Description of Proposed Construction: Construct a crew readiness addition to an existing facility utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special Construction Requirements: Renovate building to include space reconfiguration complete with new walls and wall, floor, and ceiling finishes, HVAC, fire suppression, plumbing, electrical, and communications systems modification and reconfiguration. Provide space for Sensitive Compartmentalized Information Facility (SCIF). Provide security fencing. Provide parking, cart paths, sidewalks and install pop up barriers with security berms.
Air Conditioning: 175 KW.

11. REQUIREMENT: 1,403 SM ADEQUATE: 0 SM SUBSTANDARD: 1,513 SM
PROJECT: Consolidate Crew Readiness Facility (Current Mission).
REQUIREMENT: Provide an adequately sized and properly configured alert crew readiness facility to support an Air Control Alert (ACA) mission as a detached alert that conforms to the ACA Guide 2014. Functional areas include individual bedrooms, study areas, ready rooms, kitchen, dining, exercise room, laundry room, briefing/break room, life support, maintenance brief/debrief, operation offices, and SCIF compliant mission planning, mission brief/debrief, intel/classified storage. Facility is to include lockers, restrooms and other areas necessary for a complete functional facility. Facility is to support a fighter wing detachment assigned to perform ACA mission at a deployed location, Ellington Field. This project will put Alert currently scattered among three facilities all in one location behind one fence.
CURRENT SITUATION: The Alert Crew Readiness Facility is undersized to meet the requirements of a fighter wing detachment performing ACA missions at a deployed location. Ellington Field houses an

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ANG	(computer generated)	February 2016

3. INSTALLATION AND LOCATION

ELLINGTON FIELD, TEXAS

5. PROJECT TITLE	7. PROJECT NUMBER
CONSOLIDATE CREW READINESS FACILITY	FWJH099082

ACA operation as a host unit only while performing other missions as the 147th Reconnaissance Wing, flying MQ-1 aircraft from other locations. The Base Realignment and Closure Commission (BRAC) 2005 recommended that the homeland defense ACA site be preserved using ANG aircraft assigned elsewhere and operating from Ellington on a rotational basis as tasked by US Northern Command. To adequately accommodate the remotely assigned, detached ACA mission exiting facilities must be reconfigured and re-sized to accommodate the functions that are no longer provided by Ellington Field unit as ACA and fighter aircraft operations and maintenance capabilities are no longer organic to Ellington Field. Other facilities currently in use to support ACA operations are not within the ACA compound and spread across the base, resulting in operational inefficiencies, increased workload and security concerns, increased administrative requirements, and negatively impacting the ability to carry out the ACA mission.

IMPACT IF NOT PROVIDED: The detached alert mission from a deployed location will be severely impacted with inadequate space and inefficient configuration in the existing alert crew readiness facilities. Use of other facilities which are not in the ACA compound would cause an impact to the ACA mission both in general operational and administration as well as in response time and security. Once consolidated, the ACA detachment will be housed within the same facility enhancing the ability of command and control, eliminating inefficiencies caused by widespread and geographically dispersed ACA functions. Other facilities currently supporting alert functions both in and out of the ACA compound, would be excess to need. Retention of excess facilities results in waste of utility and operations and maintenance funds, making resources unavailable for other priorities.

ADDITIONAL: This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, “Facility Requirements” and is in compliance with the base master plan and is in accordance with criteria/scope from the First Air Force Air Control Alert Site Guide, September 2014. Antiterrorism/Force Protection requirements have been considered in the development of this project. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802(c) and other applicable laws and Executive Orders. An economic analysis is being prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation.

CatCode		Requirement	Adequate	Substandard
141-459	crew readiness	1,403 SM	0 SM	1,513 SM

ALTER BUILDING 1397	604 SM = 6,500 SF
ADD TO BUILDING 1397	799 SM = 8,600 SF

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION
ELLINGTON FIELD, TEXAS

5. PROJECT TITLE	7. PROJECT NUMBER
CONSOLIDATE CREW READINESS FACILITY	FWJH099082

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	SEP 2015
(b) Parametric Cost Estimates used to develop costs	No
(c) Percent Complete as of Jan 2016	35%
* (d) Date 35% Designed	DEC 2015
(e) Date Design Complete	MAR 2016
(f) Type of Design Contract	
(g) Energy Study/Life-Cycle analysis was/will be performed	No
(2) Basis:	
(a) Standard or Definitive Design -	No
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	46
(b) All Other Design Costs	1
(c) Total	47
(d) Contract	47
(e) In-House	
(4) Contract Award (Month/Year)	OCT 2016
(5) Construction Start	MAR 2017
(6) Construction Completion	MAR 2018

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

POINT OF CONTACT: NGB/A7AD
(240) 612-8767

1. COMPONENT ANG	**FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE February 2016
3. INSTALLATION AND LOCATION BURLINGTON INTERNATIONAL AIRPORT, BURLINGTON		4. AREA CONSTR COST INDEX 1.04

5. FREQUENCY AND TYPE OF UTILIZATION
12 monthly asemblies per year, 15 days annual field training per year, daily use for training and by technician & AGR forces.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS
Four Army National Guard units.

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-212	F-35 Beddown 4- Bay Flight Simulator	2,269 SM (24,427 SF)	4,500	Aug 15	Oct 16

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
The Board recommendations are: Unilateral Construction Approved — 24 Jul 14 (Date)

9. LAND ACQUISITION REQUIRED — 3 (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)
112-211	Upgrade Taxiway F & North Arm/Disarm Pad	51,859 SM (62,025 SY)	7,000
112-211	Upgrade Taxiway D and Replace Arm/Disarm Pad- Phase II	27,151 SM (32,473 SY)	6,500
	R&M Unfunded Requirement: $19,800,000		

1. COMPONENT	FY 2017 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION

BURLINGTON INTERNATIONAL AIRPORT, BURLINGTON

11. PERSONNEL STRENGTH AS OF 15 Feb 15

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	384	51	333	0	1,126	139	987
ACTUAL	375	50	325	0	1,089	140	949

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
134 Fighter Squadron	32	26
158 Aircraft Maintenance Squadron	233	174
158 Civil Engineering Squadron	99	102
158 Communication Flight	31	33
158 Comptroller Flight	12	12
158 Detachment 1	0	0
158 FSF	31	33
158 Fighter Wing	44	46
158 Logistics Readiness Squadron	76	74
158 Medical Group	53	66
158 Maintenance Operations Flight	24	18
158 Mission Support Group	8	10
158 Maintenance Group	18	14
158 Maintenance Squadron	257	222
158 Operations Group	4	3
158 Operations Support Flight	35	30
158 Security Forces Squadron	74	67
158 Student Flight	22	96
229 Information Operations Squadron	35	30
495 FG/DET	46	46
VT ANG State Headquarters	35	33
TOTALS	1,169	1,135

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
F-16 Aircraft	18	24
Support Equipment	176	184
Vehicles	110	104

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BURLINGTON INTERNATIONAL AIRPORT, VERMONT	F-35 BEDDOWN 4- BAY FLIGHT SIMULATOR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
52635F	171-212	CURZ159055	$4,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-35 ADD/ALTER FLIGHT SIM	SM	2,269		3,542
ALTER EXISTING BUILDING FOR FLIGHT SIM	SM	2,269	1,561	(3,542)
SUPPORTING FACILITIES				380
UTILITIES	LS			(130)
PAVEMENTS	LS			(100)
SITE IMPROVEMENTS	LS			(150)
SUSTAINABILITY AND ENERGY MEASURES	LS			90
SUBTOTAL				4,012
CONTINGENCY (5%)				201
TOTAL CONTRACT COST				4,213
SUPERVISION, INSPECTION AND OVERHEAD (6%)				252
TOTAL REQUEST				4,465
TOTAL REQUEST (ROUNDED)				4,500

10. Description of Proposed Construction: Construct a high-bay, Weapons System Trainer (WST) facility utilizing conventional design and construction methods to accommodate the mission of the facility. Alter existing facility to include raising roof. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special construction requirements: existing facility bay area will have roof raised to accommodate F-35 flight simulators. Mission security will dictate secure construction for some areas of this facility (SCIF construction).
Air Conditioning: 175 KW.

11. REQUIREMENT: 980 SM ADEQUATE: 0 SM SUBSTANDARD: 490 SM
PROJECT: F-35 Beddown Add/Alter 4- Bay Flight Simulator (New Mission).
REQUIREMENT: The base has been selected to bed down a squadron of 18-PAA F-35s. The F-35 mission at Burlington requires four-each 360-degree visual high-fidelity Flight Simulators and associated infrastructure, classified briefing rooms, offices and support space. Simulator delivery is expected in 2019. F-35 aircraft arrive in 2020.
CURRENT SITUATION: The base does not have existing facilities to accommodate four F-35 flight simulators. There is sufficient space for 4 F-35 flight simulators and associated training functions in the existing facility (Bldg 120) currently housing four-each F-16 simulators. The roof height in this facility is not adequate to support the new, larger F-35 simulators, and the existing space configuration is not efficient for the new mission.
IMPACT IF NOT PROVIDED: The base will not be able to bed down the required F-35 flight simulators, resulting in storage and delay costs for equipment. Mission essential training and certifications cannot be done at Burlington. Sortie generation will be delayed and the installation will not be able to provide required mission capability to Combantant Commanders. Workarounds will include aircrew TDYs to other installations with simulator equipment, if training time is available on busy equipment at other locations, at additional cost and time.

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ANG	(computer generated)	February 2016

3. INSTALLATION AND LOCATION

BURLINGTON INTERNATIONAL AIRPORT, VERMONT

5. PROJECT TITLE	7. PROJECT NUMBER
F-35 BEDDOWN 4- BAY FLIGHT SIMULATOR	CURZ159055

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084 "Facility Requirements" and the F-35 Facility Requirements Document. Sustainable principles to include life cycle cost effective practices will be integrated into design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802(c), and other applicable laws and Executive orders. This space can be used by other Components on an as "available basis"; however, the scope of the project is based on Air National Guard requirements. An economic analysis is being prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Preliminary analysis of the alternatives indicate that alter existing facility (Bldg 120) is the most economical lify-cycle approach.

CatCode		Requirement	Adequate	Substandard
171-212	FLGHT SIMULATOR TRAINING	980 SM	0 SM	490 SM

ALTER EXISTING BUILDING FOR FLIGHT SIM2,269 SM = 24,427 SF

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION
BURLINGTON INTERNATIONAL AIRPORT, VERMONT

5. PROJECT TITLE	7. PROJECT NUMBER
F-35 BEDDOWN 4- BAY FLIGHT SIMULATOR	CURZ159055

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	AUG 2015
(b) Parametric Cost Estimates used to develop costs	YES
(c) Percent Complete as of Jan 2016	10%
* (d) Date 35% Designed	MAY 2016
(e) Date Design Complete	OCT 2016
(f) Type of Design Contract	
(g) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard or Definitive Design -	No
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	50
(b) All Other Design Costs	400
(c) Total	450
(d) Contract	450
(e) In-House	
(4) Contract Award (Month/Year)	JAN 2017
(5) Construction Start	MAR 2017
(6) Construction Completion	MAY 2018

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

POINT OF CONTACT: NGB/A7AD
(240) 612-4498

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DEPARTMENT OF THE AIR FORCE
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 2017

APPROPRIATION: MILITARY CONSTRUCTION -- AIR NATIONAL GUARD

PROGRAM 313: PLANNING AND DESIGN $10,462,000

PART I -- PURPOSE AND SCOPE

The funds estimated in this program are to provide financing for project planning and design of the construction requirements for the Air National Guard.

PART II -- JUSTIFICATION OF FUNDS REQUESTED

The funds required for Planning and Design will provide for establishing project construction design of the facilities and for fully evaluating each designed project in terms of technical adequacy and estimated costs.

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1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
VARIOUS LOCATIONS	PLANNING AND DESIGN

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
52276F	999-999	PAYZ170005	$10,462

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PLANNING AND DESIGN (P-313)	LS			10,462
SUBTOTAL				10,462
TOTAL CONTRACT COST				10,462
TOTAL REQUEST				10,462

10. Description of Proposed Construction: The funds requested will provide for the architectural and engineering services necessary to fully evaluate each project's technical adequacy and estimated cost, and complete final design of facilities. In addition, the funds are required to prepare working drawings, specifications, and project reports for the design of construction projects to be included in future Air National Guard (ANG) Military Construction (MILCON) Programs.

11. REQUIREMENT: As Required

PROJECT: Planning and Design

REQUIREMENT: The ANG requires planning and design funds for projects that are to be included in future MILCON programs. The FY 2017 design funds are needed to complete the design for those projects that are to be included in the FY 2017 MILCON program and to begin the design for those projects to be included in the FY 2017 program. Funds also provide for design of the FY 2017 unspecified minor construction program.

CURRENT SITUATION: The ANG requires the design money in FY 2017 to ensure the design milestones for the FY 2017 and FY 2018 MILCON Programs, as mandated by Department of Defense (DOD) Instruction 1225.8, are met.

IMPACT IF NOT PROVIDED: The ANG will not be able to effectively administer future year MILCON programs. Insufficient design funds will translate into late design completion, later construction starts, higher construction costs, and the inability to meet DoD and Congressionally mandated execution rates, and degrade the operational mission and training by the delays in construction completion.

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DEPARTMENT OF THE AIR FORCE
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 2017

APPROPRIATION: MILITARY CONSTRUCTION -- AIR NATIONAL GUARD

PROGRAM 341: UNSPECIFIED MINOR CONSTRUCTION $17,495,000

PART I -- PURPOSE AND SCOPE

The funds estimated in this program are to provide financing for new construction and alteration projects having cost estimates over $1,000,000 but not exceeding $3,000,000, which are not otherwise authorized by law.

PART II -- JUSTIFICATION OF FUNDS REQUESTED

The funds required for Unspecified Minor Construction will finance projects for which the urgency is such that they could not be included in the regular Military Construction Program for the Air National Guard, and such that they exceed the minor construction authorization limit in the Operation and Maintenance Appropriation.

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1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
ANG		February 2016

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
VARIOUS LOCATIONS	UNSPECIFIED MINOR CONSTRUCTION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
52276F	999-999	PAYZ170006	$17,495

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UNSPECIFIED MINOR CONSTRUCTION (P-341)	LS			17,495
SUBTOTAL				17,495
TOTAL CONTRACT COST				17,495
TOTAL REQUEST				17,495

10. Description of Proposed Construction: Provides funding for unspecified minor construction projects not otherwise authorized by law and having a funded cost between $1,000,000 and $3,000,000. Projects include construction, alteration, or conversion of permanent or temporary facilities. The Secretary of the Air Force has the authority to approve projects of this nature under the provisions of 10 U. S. Code, 18233a and 10 U. S. Code, 2805.

11. REQUIREMENT: As Required

PROJECT: Unspecified Minor Construction Program

REQUIREMENT: This program provides the means of accomplishing urgent, or unforeseen projects costing over $1,000,000, but not exceeding $3,000,000. The project requirements are anticipated to arise during late FY 2016 or FY 2017, and would be needed to satisfy critical, urgent mission beddowns and weapon system conversions, or to meet serious and urgent health, safety, and environmental requirements. The late identification of these requirements prevents their inclusion in the FY 2017 MILCON program and the projects cannot wait for the FY 2018 program. The requested funds are not a percent of the budget, but are based on historical trends. Routine and non-urgent projects are not funded from this account.

CURRENT SITUATION: As in the recent past, it is expected that the Air Force will continue to transfer missions and force structure into the ANG. These aircraft conversions and beddowns generate facility requirements that are often late-to-need using normal MILCON programming avenues. The urgency of the required projects is driven by the arrival of new aircraft and equipment, or the need to eliminate immediate health, safety or environmental requirements or personnel growth.

IMPACT IF NOT PROVIDED: Unable to adequately support mission conversions and beddowns. More expensive workarounds will have to be used. Formal reprogramming is the only other option available; however, funds may not be available for these reprogramming actions.

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DEPARTMENT OF THE AIR FORCE
AIR NATIONAL GUARD
MILITARY CONSTRUCTION PROGRAM FOR FISCAL YEAR 2017

SECTION III

FUTURE YEARS DEFENSE PLAN (FYDP)

FISCAL YEAR LISTING

Air National Guard
Fiscal Years Defense Plan (FYDP) By Year

Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount ($000)	Change from FY16PB	Explanation of Changes	Footprint
Guard	2018	3830	JLWS019054	New Castle County Airport	DE	Replace Fuel Cell and Corrosion Control Hangar	52276F	211-179	11,100	11	Was 2017 in FY16 PB. State #1 FY17 MILCON priority.	Existing
Guard	2018	3830	XDQU109057	Savannah/Hilton Head IAP	GA	Consolidate-MX Hngr/Shops	52276F	211-111	15,500		Replace bldg 199. Consolidation.	New
Guard	2018	3830	WEAS079054	Louisville International Airport - Standiford Field	KY	Add/Alter Response Forces (RF) Facility	54123F	171-445	8,900		Was 2018 in FY16 PB. State #1 FY17 MILCON priority. Project includes EMEDS and Fatality Search team in addition to the CRG. Econ Analysis needs final coordination for NGB signature.	New
Guard	2018	3830	SPBN019139	Otis ANGB	MA	Consolidate Base Civil Engineer Facilities	52276F	219-944	7,700			Existing
Guard	2018	3830	AJXF039040	Joint Base Andrews	MD	Load Crew Training/Corrosion Control	52276F	171-875	5,000		State #1 FY17 MILCON priority. Was FY18 (PB16). Munitions Load Crew Training/Corrosion Control Facility	New
Guard	2018	3830	ULYB049040	Rosecrans MAP	MO	Replace Communications Facility	52276F	131-111	6,000			New
Guard	2018	3830	WYTD109008	Toledo Express Airport	OH	Indoor Small Arms Range	52276F	171-475	6,000			New
Guard	2018	3830	KJAQ119006	Klamath Falls Airport-Kingsley Field	OR	Construct Corrosion Control Hangar	52276F	211-159	8,500		State #2 FY17 MILCON priority. Increased Flying hours means increased MX demands.	New
Guard	2018	3830	LKLW099101	Fort Indiantown Gap ANG Station	PA	Operations and Training/Dining Hall	52276F	722-351	8,000	400	State #1 FY17 MILCON priority. Replace Operations and Training and Dining Hall Facilities	New
Guard	2018	3830	LUXC099042	Joe Foss Field	SD	Aircraft Maintenance Shops	52276F	217-712	12,300	41	Was 2017 in FY16 PB. State #1 FY17 MILCON priority.	New
Guard	2018	3830	PSXE999132	McGhee Tyson Airport	TN	Replace KC 135 Maintenance Hangar and Shops	52276F	211-111	23,000		State #1 MILCON priority for FY17. Economic Analysis underway. RAC 2 and FSD 2.	New
Guard	2018	3830	PAYZ180005	Unspecified	VL	Planning and Design	52276F	961-000	16,568			
Guard	2018	3830	PAYZ180006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	21,044			
						TOTAL MAJOR CONSTRUCTION			**149,612**			
Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount ($000)	Change from FY16 PB	Explanation of Changes	Footprint
Guard	2019	3830	BRKR009063	Birmingham International Airport	AL	Security and Services Training Facility	52276F	730-835	6,400		Was 2016 in FY15PB. Econ Analysis dated 2010. State #2 FY17 MILCON priority.	New

Air National Guard
Fiscal Years Defense Plan (FYDP) By Year

Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount ($000)	Change from FY16PB	Explanation of Changes	Footprint
Guard	2019	3830	CRWU139039	Buckley Air Force Base	CO	Construct Corrosion Control and Fuel Cell Hangar	52276F	211-159	11,000		State MILCON #1 for FY17.	New
Guard	2019	3830	SAKW109201	Northwest Field-Anderson AFB	GU	RED HORSE Operational Facility	52276F	171-445	6,000	800	Project may be execuable with UMMC but not at full scope.	New
Guard	2019	3830	JLQN049119	General Wayne A. Downing Peoria IAP (ANG)	IL	Fire Crash/Rescue Station	52276F	130-142	9,000	(14)	State #1 FY17 MILCON priority. Base is primary for CFR. Top base MILCON priority. Construct New Fire Crash/Rescue Station (Current Mission)	Existing
Guard	2019	3830	MBMV099170	W. K. Kellogg Airport	MI	Upgrade Main Base Entrance	52276F	730-839	4,000		State #3 FY17 MILCON priority. May have P-341 solution. Force Protection Measures - Upgrade Main Base Entrance	New
Guard	2019	3830	LRXQ109002	Jackson International Airport	MS	Fire Crash and Rescue Station	52276F	130-142	9,000		State #1 FY17 MILCON priority.	
Guard	2019	3830	NGCB119030	Lincoln MAP	NE	Aerial Port and Mobility Processing Facility	52276F	171-873	6,000			New
Guard	2019	3830	AQRC069222	Atlantic City International Airport	NJ	Dining Hall and Services Facility	52276F	722-351	9,500			New
Guard	2019	3830	EUBC009109	Camp Perry ANG Station	OH	RED HORSE Logistics Complex	52276F	442-758	6,000			New
Guard	2019	3830	PBXP929798	Mansfield Lahm Airport	OH	Replace Fire Station	52276F	130-142	7,500			New
Guard	2019	3830	XGFG139001	Dane County Regional-Truax Field	WI	ADAL Bldg 500 for Medical Training	52276F	171-450	5,000		State #1 FY17 MILCON priority.	New
Guard	2019	3830	PAYZ190005	Unspecified	VL	Planning and Design	52276F	961-000	20,338			
Guard	2019	3830	PAYZ190006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	24,376			
						TOTAL MAJOR CONSTRUCTION			**124,114**			

Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount ($000)	Change from FY16 PB	Explanation of Changes	Footprint
Guard	2020	3830	XHEA109012	Tucson International airport	AZ	Construct Base Entry Complex	52276F	730-839	5,300		State #1 FY17 MILCON priority.	New
Guard	2020	3830	JLWS069156	New Castle County Airport	DE	C-130 Aircraft Maintenance Shops	52276F	211-157	8,700			New

Air National Guard
Fiscal Years Defense Plan (FYDP) By Year

Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount ($000)	Change from FY16PB	Explanation of Changes	Footprint
Guard	2020	3830	BXRH019091	Boise Air Terminal(Gowan Field)	ID	Operations, Training/Medical Training	52276F	171-445	11,600		State #1 FY17 MILCON priority. Was FY18 in FY16PB. EA says new construction best alternative. Existing (B400) has high nbr of work orders.	Existing
Guard	2020	3830	ULYB049048	Rosecrans Memorial Airport	MO	Repl AATTC Aircrft Prkg Apron	52276F	113-321	9,000		Check scope	New
Guard	2020	3830	WKVB109058	Francis S. Gabreski Airport	NY	Security Forces and Communication Training	52276F	730-835	14,400		RAC and JSIVA on file. Replace Security Forces and Communication Training Facility	
Guard	2020	3830	TWLR039103	Quonset State Airport	RI	Replace Fire Station	52276F	130-142	10,000		May have UMMC/SRM solution.	New
Guard	2020	3830	PAYZ200005	Unspecified	VL	Planning and Design	52276F	961-000	11,936			
Guard	2020	3830	PAYZ200006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	13,757			
Guard	2020	3830	LYBH009133	Yeager	WV	Replace Communications Training Facility	52276F	131-111	6,000			Existing
						TOTAL MAJOR CONSTRUCTION			**90,693**			

Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount ($000)	Change from FY16 PB	Explanation of Changes	Footprint
Guard	2021	3830	FAKZ049053	Montgomery Regional Airport (ANG) Base	AL	Add Fire Crash/Rescue Station	52276F	130-142	7,400			
Guard	2021	3830	AXQD049060	Barnes Municipal Airport	MA	Replace Engine, ASE and NDI Shops	52276F	211-157	9,000			
Guard	2021	3830	FJRP009093	Charlotte/Douglas International Airport	NC	Operations and Training Facility	52276F	171-445	6,600	(216)		New
Guard	2021	3830	SZCQ099041	Pease International Tradeport ANG	NH	Indoor Small Arms Range	52276F	179-475	8,200			New
Guard	2021	3830	AQRC099002	Atlantic City International Airport	NJ	Maintenance Hangar and Shops	52276F	211-111	29,000		ADAL Maintenance Hangar and General Purpose Shops	New
Guard	2021	3830	FWJH059016	Ellington Field	TX	Replace Security Forces Facility	52276F	730-835	5,800			New
Guard	2021	3830	PAYZ210005	Unspecified	VL	Planning and Design	52276F	961-000	5,758			

Air National Guard
Fiscal Years Defense Plan (FYDP) By Year

Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount ($000)	Change from FY16PB	Explanation of Changes	Footprint
Guard	2021	3830	PAYZ210006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	9,360			
Guard	2021	3830	HTUV089012	General Mitchell International Airport	WI	Replace Fire Station	52276F	130-142	8,300			Existing
						TOTAL MAJOR CONSTRUCTION			**89,418**			

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SECTION III

FUTURE YEARS DEFENSE PLAN (FYDP)

STATE/INSTALLATION LISTING

Air National Guard
Future Years Defense Plan (FYDP) By State

Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount ($000)	Changes from FY 16 PB	Explanation of Changes	Footprint
Guard	2019	3830	BRKR009063	Birmingham International Airport	AL	Security and Services Training Facility	52276F	730-835	6,400		Econ Analysis dated 2010. State #2 FY17 MILCON priority.	New
Guard	2021	3830	FAKZ049053	Montgomery Regional Airport (ANG) Bas	AL	Add Fire Crash/Rescue Station	52276F	130-142	7,400			
Guard	2020	3830	XHEA109012	Tucson International airport	AZ	Construct Base Entry Complex	52276F	730-839	5,300		State #1 FY17 MILCON priority.	New
Guard	2019	3830	CRWU139039	Buckley Air Force Base	CO	Construct Corrosion Control and Fuel Cell Hangar	52276F	211-159	11,000		State MILCON #1 for FY17.	New
Guard	2018	3830	JLWS019054	New Castle County Airport	DE	Replace Fuel Cell and Corrosion Control Hangar	52276F	211-179	11,100	11	Was 2017 in FY16 PB. State #1 FY17 MILCON priority.	Existing
Guard	2020	3830	JLWS069156	New Castle County Airport	DE	C-130 Aircraft Maintenance Shops	52276F	211-157	8,700		State #2 FY16 MILCON priority.	New
Guard	2018	3830	XDQU109057	Savannah/Hilton Head IAP	GA	Consolidate-MX Hngr/Shops	52276F	211-111	15,500			New
Guard	2019	3830	SAKW109201	Northwest Field-Anderson AFB	GU	RED HORSE Operational Facility	52276F	171-445	6,000	800	Project may be execuable with UMMC but not at full scope.	New
Guard	2020	3830	BXRH019091	Boise Air Terminal(Gowan Field)	ID	Operations, Training/Medical Training	52276F	171-445	11,600		State #1 FY17 MILCON priority. Was FY18 in FY16PB. EA says new construction best alternative. Existing (B400) has high nbr of work orders.	Existing

Air National Guard
Future Years Defense Plan (FYDP) By State

Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount ($000)	Changes from FY 16 PB	Explanation of Changes	Footprint
Guard	2019	3830	JLQN049119	General Wayne A. Downing Peoria IAP	IL	Fire Crash/Rescue Station	52276F	130-142	9,000	(14)	State #1 FY17 MILCON priority. Base is primary for CFR. Top base MILCON priority. Construct New Fire Crash/Rescue Station (Current Mission)	Existing
Guard	2018	3830	WEAS079054	Louisville International Airport - Standifo	KY	Add/Alter Response Forces (RF) Facility	54123F	171-445	8,900		Was 2018 in FY16 PB. State #1 FY17 MILCON priority. Project includes EMEDS and Fatality Search team in addition to the CRG. Econ Analysis needs final coordination for NGB signature.	New
Guard	2018	3830	SPBN019139	Otis ANGB	MA	Consolidate Base Civil Engineer Facilities	52276F	219-944	7,700			Existing
Guard	2021	3830	AXQD049060	Barnes Municipal Airport	MA	Replace Engine, ASE and NDI Shops	52276F	211-157	9,000			
Guard	2018	3830	AJXF039040	Joint Base Andrews	MD	Load Crew Training/Corrosion Control	52276F	171-875	5,000		State #1 FY17 MILCON priority. Was FY18 (PB16). Munitions Load Crew Training/Corrosion Control Facility	New
Guard	2019	3830	MBMV099170	W. K. Kellogg Airport	MI	Upgrade Main Base Entrance	52276F	730-839	4,000		State #3 FY17 MILCON priority. May have P-341 solution. Force Protection Measures - Upgrade Main Base Entrance	New
Guard	2018	3830	ULYB049040	Rosecrans MAP	MO	Replace Communications Facility	52276F	131-111	6,000			New
Guard	2020	3830	ULYB049048	Rosecrans Memorial Airport	MO	Repl AATTC Aircrft Prkg Apron	52276F	113-321	9,000		Check scope	New
Guard	2019	3830	LRXQ109002	Jackson International Airport	MS	Fire Crash and Rescue Station	52276F	130-142	9,000		State #1 FY17 MILCON priority.	

Air National Guard
Future Years Defense Plan (FYDP) By State

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Guard	2021	3830	FJRP009093	Charlotte/Douglas International Airport	NC	Operations and Training Facility	52276F	171-445	6,600	(216)		New
Guard	2019	3830	NGCB119030	Lincoln MAP	NE	Aerial Port and Mobility Processing Facility	52276F	171-873	6,000			New
Guard	2021	3830	SZCQ099041	Pease International Tradeport ANG	NH	Indoor Small Arms Range	52276F	179-475	8,200			New
Guard	2019	3830	AQRC069222	Atlantic City International Airport	NJ	Dining Hall and Services Facility	52276F	722-351	9,500			New
Guard	2021	3830	AQRC099002	Atlantic City International Airport	NJ	Maintenance Hangar and Shops	52276F	211-111	29,000		ADAL Maintenance Hangar and General Purpose Shops	New
Guard	2020	3830	WKVB109058	Francis S. Gabreski Airport	NY	Security Forces and Communication Training	52276F	730-835	14,400		RAC and JSIVA on file. Replace Security Forces and Communication Training Facility	
Guard	2018	3830	WYTD109008	Toledo Express Airport	OH	Indoor Small Arms Range	52276F	171-475	6,000			New
Guard	2019	3830	EUBC009109	Camp Perry ANG Station	OH	RED HORSE Logistics Complex	52276F	442-758	6,000			New
Guard	2019	3830	PBXP929798	Mansfield Lahm Airport	OH	Replace Fire Station	52276F	130-142	7,500			New
Guard	2018	3830	KJAQ119006	Klamath Falls Airport-Kingsley Field	OR	Construct Corrosion Control Hangar	52276F	211-159	8,500		State #2 FY17 MILCON priority. Increased Flying hours means increased MX demands.	New

Air National Guard
Future Years Defense Plan (FYDP) By State

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Guard	2018	3830	LKLW099101	Fort Indiantown Gap ANG Station	PA	Operations and Training/Dining Hall	52276F	722-351	8,000	400	State #1 FY17 MILCON priority. Replace Operations and Training and Dining Hall Facilities	New
Guard	2020	3830	TWLR039103	Quonset State Airport	RI	Replace Fire Station	52276F	130-142	10,000		May have UMMC/SRM solution.	New
Guard	2018	3830	LUXC099042	Joe Foss Field	SD	Aircraft Maintenance Shops	52276F	217-712	12,300	41	Was 2017 in FY16 PB. State #1 FY17 MILCON priority.	New
Guard	2018	3830	PSXE999132	McGhee Tyson Airport	TN	Replace KC 135 Maintenance Hangar and Shops	52276F	211-111	23,000		State #1 MILCON priority for FY17. Economic Analysis underway. RAC 2 and FSD 2.	New
Guard	2021	3830	FWJH059016	Ellington Field	TX	Replace Security Forces Facility	52276F	730-835	5,800			New
Guard	2018	3830	PAYZ180005	Unspecified	VL	Planning and Design	52276F	961-000	16,568			
Guard	2018	3830	PAYZ180006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	21,044			
Guard	2019	3830	PAYZ190006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	24,376			
Guard	2019	3830	PAYZ190005	Unspecified	VL	Planning and Design	52276F	961-000	20,338			
Guard	2020	3830	PAYZ200005	Unspecified	VL	Planning and Design	52276F	961-000	11,936			

Air National Guard
Future Years Defense Plan (FYDP) By State

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Guard	2020	3830	PAYZ200006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	13,757			
Guard	2021	3830	PAYZ210006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	9,360			
Guard	2021	3830	PAYZ210005	Unspecified	VL	Planning and Design	52276F	961-000	5,758			
Guard	2019	3830	XGFG139001	Dane County Regional-Truax Field	WI	ADAL Bldg 500 for Medical Training	52276F	171-450	5,000			New
Guard	2021	3830	HTUV089012	General Mitchell International Airport	WI	Replace Fire Station	52276F	130-142	8,300			New
Guard	2020	3830	LYBH009133	Yeager Airport	WV	Replace Communications Training Facility	52276F	131-111	6,000			New

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