

# **AIR NATIONAL GUARD**

**Fiscal Year (FY) 2020  
BUDGET ESTIMATES**



**MILITARY CONSTRUCTION**

**APPROPRIATION 3830**

**PROGRAM YEAR 2020**

**Justification Data Submitted to Congress**

**March 2019**



**DEPARTMENT OF THE AIR FORCE  
AIR NATIONAL GUARD  
MILITARY CONSTRUCTION PROGRAM FOR FISCAL YEAR 2020**

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**SUMMARY PROJECT LIST  
AIR NATIONAL GUARD  
MILITARY CONSTRUCTION PROGRAM FOR FISCAL YEAR 2020**

STATE	INSTALLATION AND PROJECT	AUTH AMOUNT (\$000)	APPN AMOUNT (\$000)	PAGE NO.
GEORGIA	Savannah/Hilton Head International Airport Consolidated Joint Air Dominance Hangar/Shops	<u>24,000</u>	<u>24,000</u>	II-1
		<b>24,000</b>	<b>24,000</b>	
MISSOURI	Rosecrans Memorial Airport C-130 Flight Simulator Facility	<u>9,500</u>	<u>9,500</u>	II-7
		<b>9,500</b>	<b>9,500</b>	
PUERTO RICO	Luis Munoz Marin International Airport Communications Facility Maintenance Hangar	12,500	12,500	II-12
		<u>37,500</u>	<u>37,500</u>	II-17
		<b>50,000</b>	<b>50,000</b>	
WISCONSIN	Dane County Regional Airport-Truax Field F-35 Simulator Facility Fighter Alert Shelters	14,000	14,000	II-20
		<u>20,000</u>	<u>20,000</u>	II-25
		<b>34,000</b>	<b>34,000</b>	
<b>SUB-TOTAL -- MAJOR CONSTRUCTION</b>		<b><u>117,500</u></b>	<b><u>117,500</u></b>	
			<b>17,000</b>	II-28
			<b>31,471</b>	II-30
<b>SUB - TOTAL -- SUPPORT COSTS</b>			<b><u>48,471</u></b>	
<b>GRAND TOTAL - FY 2020 REQUEST</b>		<b>117,500</b>	<b>165,971</b>	

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**NEW MISSION/CURRENT MISSION EXHIBIT  
AIR NATIONAL GUARD  
MILITARY CONSTRUCTION PROGRAM FOR FISCAL YEAR 2020**

<b>LOCATION</b>	<b>PROJECT</b>	<b>COST (\$000)</b>	<b>CURRENT/ NEW/ENV</b>
<b>Savannah/Hilton Head International Airport, GA</b>	Consolidated Joint Air Dominance Hangar/Shops	24,000	C
<b>Rosecrans Memorial Airport, MO</b>	C-130 Flight Simulator Facility	9,500	N
<b>Luis Munoz Marin International Airport, PR</b>	Communications Facility	12,500	C
<b>Luis Munoz Marin International Airport, PR</b>	Maintenance Hangar	37,500	C
<b>Dane County Regional Airport-Truax Field, WI</b>	F-35 Simulator Facility	14,000	N
<b>Dane County Regional Airport-Truax Field, WI</b>	Fighter Alert Shelters	20,000	C
	<b>PLANNING AND DESIGN</b>	<b>17,000</b>	
	<b>UNSPECIFIED MINOR CONSTRUCTION</b>	<b>31,471</b>	
	<b>TOTAL ENERGY</b>	<b>0</b>	
	<b>TOTAL ENVIRONMENTAL</b>	<b>0</b>	
	<b>TOTAL NEW MISSION (2)</b>	<b>23,500</b>	
	<b>TOTAL CURRENT MISSION (4)</b>	<b><u>94,000</u></b>	
	<b>GRAND TOTAL - FY 2020 REQUEST</b>	<b>165,971</b>	

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**DEPARTMENT OF THE AIR FORCE  
AIR NATIONAL GUARD  
MILITARY CONSTRUCTION PROGRAM FOR FISCAL YEAR 2020**

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**SECTION I**

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**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, \$165,971,000 to remain available until September 30, 2024.

## **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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**DEPARTMENT OF THE AIR FORCE  
AIR NATIONAL GUARD  
MILITARY CONSTRUCTION PROGRAM FOR FISCAL YEAR 2020**

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**SECTION II**

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**PROJECT INSTALLATION / JUSTIFICATION DATA**

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1. COMPONENT ANG	<b>FY 2020 GUARD AND RESERVE MILITARY CONSTRUCTION</b>			2. DATE MAR 2019													
3. INSTALLATION AND LOCATION SAVANNAH/HILTON HEAD IAP, SAVANNAH				4. AREA CONSTR COST INDEX .87													
5. FREQUENCY AND TYPE OF UTILIZATION One unit training assembly per month, 15 days annual field training per year, daily use by technician/AGR force and training. Potential for 365 days of visiting unit-training exercises. Large force fighter exercises at Air Dominance Center.																	
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS 1 Active Army Installation. 1 Army Reserve Installation. 1 Marine Reserve Installation.																	
7. PROJECTS REQUESTED IN THIS PROGRAM																	
<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">CATEGORY CODE</th> <th style="text-align: left; border-bottom: 1px solid black;">PROJECT TITLE</th> <th style="text-align: left; border-bottom: 1px solid black;">SCOPE</th> <th style="text-align: left; border-bottom: 1px solid black;">COST \$(000)</th> <th colspan="2" style="text-align: left; border-bottom: 1px solid black;"><u>DESIGN STATUS</u> START      COMPLETE</th> </tr> </thead> <tbody> <tr> <td>211-111</td> <td>Consolidated Joint Air Dominance Hangar/Shops</td> <td>3,754 SM (40,400 SF)</td> <td>24,000</td> <td>Oct 17</td> <td>Mar 19</td> </tr> </tbody> </table>						CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u> START      COMPLETE		211-111	Consolidated Joint Air Dominance Hangar/Shops	3,754 SM (40,400 SF)	24,000	Oct 17	Mar 19
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u> START      COMPLETE													
211-111	Consolidated Joint Air Dominance Hangar/Shops	3,754 SM (40,400 SF)	24,000	Oct 17	Mar 19												
8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION The Board recommendations are: Unilateral Construction Approved																	
				<u>10 May 18</u> (Date)													
9. LAND ACQUISITION REQUIRED																	
				<u>None</u> (Number of Acres)													
10. PROJECTS PLANNED IN NEXT FOUR YEARS																	
<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">CATEGORY CODE</th> <th style="text-align: left; border-bottom: 1px solid black;">PROJECT TITLE</th> <th style="text-align: left; border-bottom: 1px solid black;">SCOPE</th> <th style="text-align: left; border-bottom: 1px solid black;">COST \$(000)</th> </tr> </thead> <tbody> <tr> <td>730-839</td> <td>Robert B. Miller Entry Control Facility</td> <td>177 SM (1,900 SF)</td> <td>2,900</td> </tr> <tr> <td colspan="4" style="padding-left: 20px;">R&amp;M Unfunded Requirement: \$7,140,000</td> </tr> </tbody> </table>						CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	730-839	Robert B. Miller Entry Control Facility	177 SM (1,900 SF)	2,900	R&M Unfunded Requirement: \$7,140,000			
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)														
730-839	Robert B. Miller Entry Control Facility	177 SM (1,900 SF)	2,900														
R&M Unfunded Requirement: \$7,140,000																	

1. COMPONENT ANG	<b>FY 2020 GUARD AND RESERVE MILITARY CONSTRUCTION</b>				2. DATE MAR 2019		
3. INSTALLATION AND LOCATION SAVANNAH/HILTON HEAD IAP, SAVANNAH							
11. PERSONNEL STRENGTH AS OF 30 Mar 18							
		PERMANENT			GUARD/RESERVE		
	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>	<u>CIVILIAN</u>	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>
AUTHORIZED	360	43	317	0	1,074	155	919
ACTUAL	341	39	302	0	1,043	136	907
12. RESERVE UNIT DATA							
	<u>UNIT DESIGNATION</u>	<u>AUTHORIZED</u>		<u>STRENGTH</u>		<u>ACTUAL</u>	
	158 Airlift Squadron	103				112	
	165 Aircraft Maintenance Squadron	61				47	
	165 Air Support Operations Squadron	79				57	
	165 Airlift Wing	51				59	
	165 Civil Engineering Squadron	99				81	
	165 Communication Flight	32				37	
	165 Comptroller Flight	12				12	
	165 Combat Readiness Training Center	71				53	
	165 Force Support Squadron	47				50	
	165 Logistics Readiness Squadron	122				115	
	165 Medical Group	56				55	
	165 Maintenance Operations Flight	24				20	
	165 Mission Support Group	13				13	
	165 Maintenance Group	19				16	
	165 Maintenance Squadron	155				119	
	165 Operations Group	10				9	
	165 Operations Support Squadron	40				40	
	165 Security Forces Squadron	73				69	
	165 Student Flight	29				106	
	TOTALS	1,096				1,070	
13. MAJOR EQUIPMENT AND AIRCRAFT							
	<u>TYPE</u>	<u>AUTHORIZED</u>		<u>ACTUAL</u>			
	C-130H Aircraft	8				8	
	165th Vehicles	169				148	
	165th V.E.'s	386				386	
	165th ASE Equip.	234				166	
	CRTC/ADC VEH	155				174	
	CRTC/ADC VEH EQ	454				454	
	CRTC/ADC ASE	119				116	



1. COMPONENT ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAR 2019
3. INSTALLATION AND LOCATION SAVANNAH/HILTON HEAD IAP, GEORGIA			4. PROJECT TITLE CONSOLIDATED JOINT AIR DOMINANCE HANGAR/SHOPS	
5. PROGRAM ELEMENT 52276F	6. CATEGORY CODE 211-111	7. PROJECT NUMBER XDQU109057	8. PROJECT COST(\$000) \$24,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
CONSOLIDATE JOINT AIR DOMINANCE HANGAR/SHOPS	SM	3,754		16,408
MAINTENANCE HANGAR (211111)	SM	2,137	4,467	( 9,546)
MAINTENANCE SHOPS (VARIOUS)	SM	1,245	4,306	( 5,361)
AIRCRAFT ORG MAINTENANCE ADMIN (211154)	SM	372	4,036	( 1,501)
SUPPORTING FACILITIES				5,121
AIRFIELD PAVEMENTS	LS			( 1,500)
UTILITIES	LS			( 1,040)
SITE IMPROVEMENTS	LS			( 500)
VEHICLE PAVEMENTS/CIRCULATION	LS			( 375)
COMMUNICATIONS SUPPORT	LS			( 850)
DEMOLITION	SM	2,417	323	( 781)
ENIRONMENTAL REMEDIATION	LS			( 75)
SUSTAINABILITY & ENERGY MEASURES				
SUBTOTAL				21,529
CONTINGENCY (5%)				<u>1,076</u>
TOTAL CONTRACT COST				22,605
SUPERVISION, INSPECTION AND OVERHEAD (6%)				<u>1,356</u>
TOTAL REQUEST				23,961
TOTAL REQUEST (ROUNDED)				24,000
10. Description of Proposed Construction: Construct a high-bay aircraft maintenance hangar and associated aircraft maintenance shops by 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 new electrical feeder with switch and breaker and High Expansion Foam system. Provide fall arrest system for fighter and large frame aircraft. Demolish facilities in the footprint of this construction. Air Conditioning: 158 KW.				
11. REQUIREMENT: 3,753 SM ADEQUATE: 0 SM SUBSTANDARD: 7,272 SM PROJECT: Consolidate Joint Air Dominance Hangar/Shops (Current Mission) REQUIREMENT: The installation requires properly sited, adequately sized, and appropriately configured facilities to support its mission, specifically supporting the Air Dominance Center and its training mission to provide airspace, ranges, systems, facilities, and equipment for deployed total force units to enhance capabilities and combat readiness through an integrated, year-round, and realistic training environment. An aircraft maintenance hangar, back shops, and support space is required to accommodate deployed maintenance needs of fighter aircraft, to include 5th generation fighters, as well as large frame support aircraft. Fifth generation aircraft such as the F-22 requires specific maintenance housing and equipment. This facility will provide 3 spaces for fighter aircraft maintenance, to include 5th generation aircraft, or 1 space C-130 aircraft maintenance.				

1. COMPONENT  ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA  (computer generated)	2. DATE  MAR 2019
3. INSTALLATION AND LOCATION  SAVANNAH/HILTON HEAD IAP, GEORGIA		
5. PROJECT TITLE  CONSOLIDATED JOINT AIR DOMINANCE HANGAR/SHOPS	7. PROJECT NUMBER  XDQU109057	
<p><u>CURRENT SITUATION:</u> The Air Dominance Center (ADC) is one of the Air National Guard's Combat Readiness Training Centers and specializes on a variety of air combat and air support training operations to include hosting deployed, transient fighter, tanker, and transport aircraft, air crews, maintainers, and support personnel for training in realistic, wartime operations. A large number of different and varied airframes are supported to include T-38, F-15, F-16, F-18, F-22, and F-35 aircraft. Large frame aircraft such as the C-17, C-130, and KC-135 also frequent the training environment. The ADC's maintenance hangar and shop complex is Building 199 and is original to the base. The entire complex is well over 60 years old, antiquated, and rapidly becoming dilapidated in spite of vigorous maintenance efforts. The hangar has numerous structural, mechanical, fire suppression, and electrical deficiencies. The structure and its component parts are deteriorating faster than repairs can be funded and executed. All of the building systems, including the roof and its sub-frame, have exceeded their intended useful life and none meet any current codes. The facility was damaged by Hurricane Matthew and repaired using expedient methods. Maintenance of deployed aircraft is compromised due to the overall condition of the hangar. Facility contains Lead Based Paint and Asbestos Containing Materials requiring proper disposal. This facility has a Fire Safety Deficiency of 1 due to lack of adequate fire suppression and multiple safety Risk Assessment Codes (RAC), with an overall RAC of 3.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The facility will continue to deteriorate, jeopardizing the safety of personnel, aircraft, and ultimately flight operations. Deployed units' maintenance capabilities will continue to be compromised, seriously degrading the training operations. The ADC will be unable to support 5th generation fighter aircraft into training exercises, greatly decreasing the viability of the ADC and impacting training unit readiness. Without inclusion of these aircraft in ADC training events, training will be less and less realistic and mission readiness would decrease further and further. The mission of the ADC would be compromised and aircrews throughout the Total Force would not possess the requisite tools necessary to fly, fight, and win in any future potential engagement in an increasingly complex and lethal environment.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Space Standards" and is in compliance with the installation development plan. 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. 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. 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 13693, 10 USC 2802(c) and other applicable laws and Executive Orders. This project is considered capitalization based on the following rule from ANGETL 17-06: New Construction. The following buildings will be demolished as a result of this project: 115 (1,958 SM / 21,067 SF), 117 (89 SM / 960 SF) and 119 (370 SM / 3983 SF) for a total of 2,417 SM (26,019). Buildings 115, 117 and 119 are in the way of construction. Additionally, this project will enable the demolition of buildings 199 and 1010 (5022 SM / 54,051 SF) through project XDQU182995. Building 115: FCI = 64. Building 117: ACES-RP condition code 3 (Forced use – substandard). Building 119: ACES-RP condition code 2 (Usable Class B – substandard). Building 199: FCI = 74. Building 1010: ACES-RP condition code 4 (Sterile – unoccupied).</p>		

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3. INSTALLATION AND LOCATION SAVANNAH/HILTON HEAD IAP, GEORGIA																															
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<table border="0"> <thead> <tr> <th>CatCode</th> <th>Requirement</th> <th>Adequate</th> <th>Substandard</th> </tr> </thead> <tbody> <tr> <td>211-111 AIRCRAFT MAINTENANCE HANGAR</td> <td>2,137 SM</td> <td>0 SM</td> <td>5,447 SM</td> </tr> <tr> <td>211-152 ARCRFT GENERAL PURPOSE (GP) SH</td> <td>372 SM</td> <td>0 SM</td> <td>590 SM</td> </tr> <tr> <td>217-712 AVIONICS SHOP</td> <td>279 SM</td> <td>0 SM</td> <td>221 SM</td> </tr> <tr> <td>218-712 AIRCRAFT SUPPORT EQUIPMENT (AS</td> <td>557 SM</td> <td>0 SM</td> <td>934 SM</td> </tr> <tr> <td>211-153 NON-DESTRUCTIVE INSPECTION (ND</td> <td>37 SM</td> <td>0 SM</td> <td>0 SM</td> </tr> <tr> <td>211-154 AIRCRAFT ORG MAINT (AMU) SHOP</td> <td>372 SM</td> <td>0 SM</td> <td>80 SM</td> </tr> </tbody> </table>	CatCode	Requirement	Adequate	Substandard	211-111 AIRCRAFT MAINTENANCE HANGAR	2,137 SM	0 SM	5,447 SM	211-152 ARCRFT GENERAL PURPOSE (GP) SH	372 SM	0 SM	590 SM	217-712 AVIONICS SHOP	279 SM	0 SM	221 SM	218-712 AIRCRAFT SUPPORT EQUIPMENT (AS	557 SM	0 SM	934 SM	211-153 NON-DESTRUCTIVE INSPECTION (ND	37 SM	0 SM	0 SM	211-154 AIRCRAFT ORG MAINT (AMU) SHOP	372 SM	0 SM	80 SM			
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<p>MAINTENANCE HANGAR (211111)</p> <p>MAINTENANCE SHOPS (VARIOUS)</p> <p>AIRCRAFT ORG MAINTENANCE ADMIN (211154)</p>		<p>2,137 SM = 23,000 SF</p> <p>1,245 SM = 13,400 SF</p> <p>372 SM = 4,000 SF</p>																													

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5. PROJECT TITLE CONSOLIDATED JOINT AIR DOMINANCE HANGAR/SHOPS		7. PROJECT NUMBER XDQU109057																												
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Date Design Started</td> <td>OCT 2017</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td>No</td> </tr> <tr> <td>(c) Percent Complete as of Jan 2019</td> <td>70%</td> </tr> <tr> <td>* (d) Date 35% Designed</td> <td>APR 2018</td> </tr> <tr> <td>(e) Date Design Complete</td> <td>MAR 2019</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td>Standard</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>No</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>No</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>1,300</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>400</td> </tr> <tr> <td>(c) Total</td> <td>1,700</td> </tr> <tr> <td>(d) Contract</td> <td>0</td> </tr> <tr> <td>(e) In-House</td> <td>1,700</td> </tr> </table> <p>(4) Contract Award (Month/Year) MAR 2020</p> <p>(5) Construction Start APR 2020</p> <p>(6) Construction Completion DEC 2021</p> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p> <p>POINT OF CONTACT: NGB/A4AD (240) 612-9085</p>			(a) Date Design Started	OCT 2017	(b) Parametric Cost Estimates used to develop costs	No	(c) Percent Complete as of Jan 2019	70%	* (d) Date 35% Designed	APR 2018	(e) Date Design Complete	MAR 2019	(f) Type of Design Contract	Standard	(g) Energy Study/Life-Cycle analysis was/will be performed	No	(a) Standard or Definitive Design -	No	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	1,300	(b) All Other Design Costs	400	(c) Total	1,700	(d) Contract	0	(e) In-House	1,700
(a) Date Design Started	OCT 2017																													
(b) Parametric Cost Estimates used to develop costs	No																													
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(e) Date Design Complete	MAR 2019																													
(f) Type of Design Contract	Standard																													
(g) Energy Study/Life-Cycle analysis was/will be performed	No																													
(a) Standard or Definitive Design -	No																													
(b) Where Design Was Most Recently Used -																														
(a) Production of Plans and Specifications	1,300																													
(b) All Other Design Costs	400																													
(c) Total	1,700																													
(d) Contract	0																													
(e) In-House	1,700																													

1. COMPONENT ANG	<b>FY 2020 GUARD AND RESERVE MILITARY CONSTRUCTION</b>			2. DATE MAR 2019													
3. INSTALLATION AND LOCATION ROSECRANS MEMORIAL AIRPORT, ST JOSEPH				4. AREA CONSTR COST INDEX 1.0													
5. FREQUENCY AND TYPE OF UTILIZATION Forty Eight (48) unit training assemblies per year, Fifteen (15) days annual field training per year, daily use by full time work force consisting of technicians, State employees, and AGR's for unit training and mission accomplishment.																	
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS 1 Army Reserve Center and 1 Army National Guard (Armory) – 13 Miles																	
7. PROJECTS REQUESTED IN THIS PROGRAM																	
<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">CATEGORY CODE</th> <th style="text-align: left; border-bottom: 1px solid black;">PROJECT TITLE</th> <th style="text-align: left; border-bottom: 1px solid black;">SCOPE</th> <th style="text-align: left; border-bottom: 1px solid black;">COST \$(000)</th> <th style="text-align: left; border-bottom: 1px solid black;"><u>DESIGN STATUS</u> START</th> <th style="text-align: left; border-bottom: 1px solid black;">COMPLETE</th> </tr> </thead> <tbody> <tr> <td>171-212</td> <td>C-130 Flight Simulator Facility</td> <td>985 SM (10,600 SF)</td> <td>9,500</td> <td>Jul 18</td> <td>May 19</td> </tr> </tbody> </table>						CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u> START	COMPLETE	171-212	C-130 Flight Simulator Facility	985 SM (10,600 SF)	9,500	Jul 18	May 19
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u> START	COMPLETE												
171-212	C-130 Flight Simulator Facility	985 SM (10,600 SF)	9,500	Jul 18	May 19												
8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION The Board recommendations are: Unilateral Construction Approved																	
				25 Jan 18 (Date)													
9. LAND ACQUISITION REQUIRED																	
				106 (Number of Acres)													
10. PROJECTS PLANNED IN NEXT FOUR YEARS																	
<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">CATEGORY CODE</th> <th style="text-align: left; border-bottom: 1px solid black;">PROJECT TITLE</th> <th style="text-align: left; border-bottom: 1px solid black;">SCOPE</th> <th style="text-align: left; border-bottom: 1px solid black;">COST \$(000)</th> </tr> </thead> <tbody> <tr> <td>442-758</td> <td>Base Supply</td> <td>1,115 SM (12,000 SF)</td> <td>4,000</td> </tr> <tr> <td></td> <td colspan="3">R&amp;M Unfunded Requirement: \$860,000</td> </tr> </tbody> </table>						CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	442-758	Base Supply	1,115 SM (12,000 SF)	4,000		R&M Unfunded Requirement: \$860,000		
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)														
442-758	Base Supply	1,115 SM (12,000 SF)	4,000														
	R&M Unfunded Requirement: \$860,000																

1. COMPONENT ANG	<b>FY 2020 GUARD AND RESERVE MILITARY CONSTRUCTION</b>				2. DATE MAR 2019		
3. INSTALLATION AND LOCATION ROSECRANS MEMORIAL AIRPORT, ST JOSEPH							
11. PERSONNEL STRENGTH AS OF 03 Apr 18							
		PERMANENT			GUARD/RESERVE		
	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>	<u>CIVILIAN</u>	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>
AUTHORIZED	439	19	99	321	1,062	165	897
ACTUAL	372	19	99	254	1,010	142	868
12. RESERVE UNIT DATA							
	<u>UNIT DESIGNATION</u>	<u>AUTHORIZED</u>		<u>STRENGTH</u>		<u>ACTUAL</u>	
	139 Advanced Airlift Tactics Training Center	54				45	
	139 Comptroller Flight	12				15	
	139 Aircraft Maintenance Squadron	60				60	
	139 Airlift Wing	51				48	
	139 Civil Engineering Squadron	94				98	
	139 Communication Flight	31				30	
	139 Force Support Squadron	37				43	
	139 Logistics Readiness Squadron	119				125	
	139 Medical Group	91				99	
	139 Maintenance Operations Flight	24				19	
	139 Mission Support Group	13				14	
	139 Maintenance Group	18				17	
	139 Maintenance Squadron	151				143	
	139 Operations Group	11				9	
	139 Operations Support Flight	46				43	
	139 Security Forces Squadron	73				81	
	139 Student Flight	0				8	
	180 Airlift Squadron	99				108	
	241 Air Traffic Control Squadron	90				86	
	TOTALS	1,074				1,091	
13. MAJOR EQUIPMENT AND AIRCRAFT							
	<u>TYPE</u>	<u>AUTHORIZED</u>		<u>ACTUAL</u>			
	Vehicles	163				152	
	C-130H Aircraft	10				10	
	Support Equipment	186				179	
	Vehicle Equivalents	391				391	

1. COMPONENT ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAR 2019
3. INSTALLATION AND LOCATION ROSECRANS MEMORIAL AIRPORT, MISSOURI			4. PROJECT TITLE C-130 FLIGHT SIMULATOR FACILITY	
5. PROGRAM ELEMENT 54332F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER ULYB169010	8. PROJECT COST(\$000) \$9,500	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
C-130 FLIGHT SIMULATOR TRAINING FACILITY	SM	985		6,096
FLIGHT SIMULATOR FACILITY (171212)	SM	985	6,189	( 6,096)
SUPPORTING FACILITIES				2,270
UTILITIES	LS			( 600)
PAVEMENTS	LS			( 500)
SITE IMPROVEMENTS	LS			( 800)
COMMUNICATIONS SUPPORT	LS			( 220)
FIRE PROTECTION SUPPORT	LS			( 150)
SUSTAINABILITY AND ENERGY MEASURES	LS			150
SUBTOTAL				8,516
CONTINGENCY (5%)				426
TOTAL CONTRACT COST				8,942
SUPERVISION, INSPECTION AND OVERHEAD (6%)				536
TOTAL REQUEST				9,478
TOTAL REQUEST (ROUNDED)				9,500
10. Description of Proposed Construction: Construct a C-130 Simulator 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: Simulator requires high bay construction with specialized flooring. Air Conditioning: 350 KW.				
11. REQUIREMENT: 985 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM PROJECT: C-130 Flight Simulator Training Facility (New Mission) REQUIREMENT: The installation requires a properly sited, adequately sized and appropriately configured flight simulator facility house a six-axis flight simulator to train aircrews to fly the 8 PAA C-130H aircraft assigned to the 139th Airlift Wing. Functional areas include a two-story high bay in which to house flight simulator, briefing rooms, administrative areas for training and support staff, equipment and maintenance rooms, storage spaces, communications room supporting simulator operations, mechanical and electrical utility rooms and latrine facilities. CURRENT SITUATION: Air Mobility Command is establishing C-130 Weapons Instructor Course (WIC) Program at Rosecrans. To perform the WIC mission, a C-130 Aircrew Flight Simulator/Weapon System Trainer (WST) is required. The base does not have a facility that can be modified to accommodate a flight simulator. Crews currently perform training and meet qualification requirements by either flying existing based aircraft or performing temporary duty at an installation that has an appropriate simulator device. IMPACT IF NOT PROVIDED: Without a facility to support the new C-130 simulator, the Weapons Instructor Course cannot be established at Rosecrans. Without the facility, opportunities to effectively establish low-cost high-impact mission training will be delayed or lost. Existing low-fidelity part-task-				

1. COMPONENT ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE MAR 2019															
3. INSTALLATION AND LOCATION ROSECRANS MEMORIAL AIRPORT, MISSOURI																	
5. PROJECT TITLE C-130 FLIGHT SIMULATOR FACILITY	7. PROJECT NUMBER ULYB169010																
<p>trainer devices do not have full motion, full visual or comply with current training standards so pilot certifications are reduced. Extra cost incurred to send aircrews elsewhere for required training. Increased risk to tactical airlift operations in combat applications due to reduced training opportunities. Higher training costs and increased wear and tear on aircraft as qualifications and training would be conducted in aircraft; training in simulators is cost effective and negates flying hours budgeting requirements and saves fuel.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Space Standards" and is in compliance with the installation development plan. 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. 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 13693, 10 USC 2802(c) and other applicable laws and Executive Orders. This project is considered capitalization based on the following rule from ANGETL 17-06: New Construction.</p> <table border="0" data-bbox="235 1008 1412 1176"> <thead> <tr> <th data-bbox="235 1008 341 1039">CatCode</th> <th data-bbox="341 1008 893 1039"></th> <th data-bbox="893 1008 1088 1039">Requirement</th> <th data-bbox="1088 1008 1250 1039">Adequate</th> <th data-bbox="1250 1008 1412 1039">Substandard</th> </tr> </thead> <tbody> <tr> <td data-bbox="235 1039 341 1071">171-212</td> <td data-bbox="341 1039 893 1071">FLGHT SIMULATOR TRAINING</td> <td data-bbox="893 1039 1088 1071">985 SM</td> <td data-bbox="1088 1039 1250 1071">0 SM</td> <td data-bbox="1250 1039 1412 1071">0 SM</td> </tr> <tr> <td data-bbox="235 1144 341 1176"></td> <td data-bbox="341 1144 893 1176">FLIGHT SIMULATOR FACILITY (171212)</td> <td colspan="3" data-bbox="893 1144 1412 1176">985 SM = 10,600 SF</td> </tr> </tbody> </table>			CatCode		Requirement	Adequate	Substandard	171-212	FLGHT SIMULATOR TRAINING	985 SM	0 SM	0 SM		FLIGHT SIMULATOR FACILITY (171212)	985 SM = 10,600 SF		
CatCode		Requirement	Adequate	Substandard													
171-212	FLGHT SIMULATOR TRAINING	985 SM	0 SM	0 SM													
	FLIGHT SIMULATOR FACILITY (171212)	985 SM = 10,600 SF															



1. COMPONENT ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE MAR 2019	
3. INSTALLATION AND LOCATION ROSECRANS MEMORIAL AIRPORT, MISSOURI			
5. PROJECT TITLE C-130 FLIGHT SIMULATOR FACILITY		7. PROJECT NUMBER ULYB169010	
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started		JUL 2018	
(b) Parametric Cost Estimates used to develop costs		YES	
(c) Percent Complete as of Jan 2019		40%	
* (d) Date 35% Designed		NOV 2018	
(e) Date Design Complete		MAY 2019	
(f) Type of Design Contract		IDIQ	
(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		662	
(b) All Other Design Costs		85	
(c) Total		747	
(d) Contract		747	
(e) In-House			
(4) Contract Award (Month/Year)		MAR 2020	
(5) Construction Start		APR 2020	
(6) Construction Completion		JUL 2021	
* 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 NOMENCLATURE	PROCURING APPROPRIATION	FY APPROPRIATED OR REQUESTED	COST (\$000)
C-130 Flight Simulator	3010	FY18	25,000
POINT OF CONTACT: NGB/A4AD (240) 612-9085			

1. COMPONENT ANG	<b>FY 2020 GUARD AND RESERVE MILITARY CONSTRUCTION</b>		2. DATE MAR 2019																			
3. INSTALLATION AND LOCATION LUIS MUNOZ MARIN INTERNATIONAL AIRPORT, SAN JUAN			4. AREA CONSTR COST INDEX 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 1 Air National Guard Unit, 1 Active Army Unit, 3 Army National Guard Units, 3 Army Reserve Units and 2 Naval Units.																						
7. PROJECTS REQUESTED IN THIS PROGRAM <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY CODE</th> <th style="text-align: left;">PROJECT TITLE</th> <th style="text-align: left;">SCOPE</th> <th style="text-align: left;">COST \$(000)</th> <th style="text-align: left;"><u>DESIGN STATUS</u> START</th> <th style="text-align: left;">COMPLETE</th> </tr> </thead> <tbody> <tr> <td>131-111</td> <td>Communications Facility</td> <td>948 SM (10,200 SF)</td> <td>12,500</td> <td>Oct 18</td> <td>Aug 19</td> </tr> <tr> <td>211-111</td> <td>Maintenance Hangar</td> <td>4,831 SM (52,000 SF)</td> <td>37,500</td> <td>Oct 18</td> <td>Aug 19</td> </tr> </tbody> </table>					CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u> START	COMPLETE	131-111	Communications Facility	948 SM (10,200 SF)	12,500	Oct 18	Aug 19	211-111	Maintenance Hangar	4,831 SM (52,000 SF)	37,500	Oct 18	Aug 19
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u> START	COMPLETE																	
131-111	Communications Facility	948 SM (10,200 SF)	12,500	Oct 18	Aug 19																	
211-111	Maintenance Hangar	4,831 SM (52,000 SF)	37,500	Oct 18	Aug 19																	
8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION The Board recommendations are: Unilateral Construction Approved <div style="text-align: right;">08 April 2018 (Date)</div>																						
9. LAND ACQUISITION REQUIRED <div style="text-align: right;">None (Number of Acres)</div>																						
10. PROJECTS PLANNED IN NEXT FOUR YEARS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY CODE</th> <th style="text-align: left;">PROJECT TITLE</th> <th style="text-align: left;">SCOPE</th> <th style="text-align: left;">COST \$(000)</th> </tr> </thead> <tbody> <tr> <td>730-837</td> <td>ATFP - CNS Base Entrance Road</td> <td>5,685 SM (6,800 SY)</td> <td>2,000</td> </tr> </tbody> </table> R&M Unfunded Requirement: \$5,169,000					CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	730-837	ATFP - CNS Base Entrance Road	5,685 SM (6,800 SY)	2,000										
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)																			
730-837	ATFP - CNS Base Entrance Road	5,685 SM (6,800 SY)	2,000																			

1. COMPONENT ANG	<b>FY 2020 GUARD AND RESERVE MILITARY CONSTRUCTION</b>				2. DATE MAR 2019		
3. INSTALLATION AND LOCATION LUIS MUNOZ MARIN INTERNATIONAL AIRPORT, SAN JUAN							
11. PERSONNEL STRENGTH AS OF 30 July 2018							
		PERMANENT			GUARD/RESERVE		
	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>	<u>CIVILIAN (RIC 0170 &amp; 0160)</u>	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>
AUTHORIZED	338	10	63	265	904	155	749
ACTUAL	288	8	53	227	879	146	733
12. RESERVE UNIT DATA							
	<u>UNIT DESIGNATION</u>	<u>AUTHORIZED</u>		<u>STRENGTH</u>		<u>ACTUAL</u>	
	156 Aircraft Maintenance Squadron	45				35	
	156 Airlift Wing	45				38	
	156 Civil Engineering Squadron	102				96	
	156 Communication Flight	30				34	
	156 Comptroller Flight	12				14	
	156 Logistics Readiness Squadron	119				103	
	156 Maintenance Group	20				15	
	156 Maintenance Operations Flight	19				15	
	156 Maintenance Squadron	137				117	
	156 Medical Group	89				80	
	156 Force Support Squadron	50				55	
	156 Mission Support Group	14				16	
	156 Operations Group	11				9	
	156 Operations Support Flight	43				35	
	156 Security Forces Squadron	73				75	
	156 Student Flight	22				88	
	198 Airlift Squadron	73				54	
	TOTALS	904				879	
13. MAJOR EQUIPMENT AND AIRCRAFT							
	<u>TYPE</u>	<u>AUTHORIZED</u>		<u>ACTUAL</u>			
	C-130 Aircraft	6				5	
	Vehicle Equivalents	366				328	
	Vehicles	165				127	

1. COMPONENT ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAR 2019
3. INSTALLATION AND LOCATION LUIS MUNOZ MARIN INTERNATIONAL AIRPORT, PUERTO RICO			4. PROJECT TITLE COMMUNICATIONS FACILITY	
5. PROGRAM ELEMENT 52276F	6. CATEGORY CODE 131-111	7. PROJECT NUMBER TUMR189003	8. PROJECT COST(\$000) \$12,500	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
COMMUNICATIONS FACILITY	SM	948		4,635
COMMUNICATIONS FACILITY (131111)	SM	762	4,467	( 3,404)
OPEN CLASSIFIED STORAGE (131111)	SM	186	6,620	( 1,231)
SUPPORTING FACILITIES				6,050
PILE FOUNDATION	LS			( 1,000)
COMM SUPPORT	LS			( 2,000)
SITWORK	LS			( 800)
PAVEMENTS	LS			( 750)
UTILITIES	LS			( 750)
PASSIVE FORCE PROTECTION MEASURES	LS			( 500)
BACKUP GENERATOR	LS			( 250)
SUSTAINABILITY AND ENERGY MEASURES	LS			150
SUBTOTAL				10,835
CONTINGENCY (5%)				542
TOTAL CONTRACT COST				11,377
SUPERVISION, INSPECTION AND OVERHEAD (6%)				682
DESIGN BUILD – (DESIGN COST 4% CONTRACT COST)				430
TOTAL REQUEST				12,489
TOTAL REQUEST (ROUNDED)				12,500
10. Description of Proposed Construction: Construct a communications 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: Reinforced concrete foundation, relocate communications switch, standby power generator. Air Conditioning: 263 KW.				
11. REQUIREMENT: 948 SM ADEQUATE: 0 SM SUBSTANDARD: 529 SM PROJECT: Communications Facility (Current Mission) REQUIREMENT: The 156th Airlift Wing (AW) requires adequate space to conduct mission supporting communications for 24-hour operations to support their 6 PAA C-130s. Functional areas for communications include space for operations and maintenance, base communication switch, administration, classrooms, storage, classified storage, and customer service. The facility also requires access improvements and parking lots to meet anti-terrorism and force protection measures. CURRENT SITUATION: Hangar 1 is the Puerto Rico ANG and Virgin Islands ANG Main Core Communications Back Bone for all communications services (internet and telephone), and is home of the 156th Communications Flight (CF). All copper and fiber optics that support the 156 AW and supported units are routed and connected there. Due to amount of damage caused by Hurricanes Irma and Maria the hangar was vacated and demolition is planned in FY 2018. CF personnel are currently operating out repurposed training rooms, displacing engineering and disaster preparedness personnel from their training space.				

1. COMPONENT  ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE  MAR 2019	
3. INSTALLATION AND LOCATION  LUIS MUNOZ MARIN INTERNATIONAL AIRPORT, PUERTO RICO			
5. PROJECT TITLE  COMMUNICATIONS FACILITY	7. PROJECT NUMBER  TUMR189003		
<p><u>IMPACT IF NOT PROVIDED:</u> Serious degradation of operations and training will continue due to inefficient facilities. Advanced degradation of equipment and supplies being stored outside or in containers will result in excessive replacement costs. Operational communications systems can degrade quickly, jeopardizing critical command and control links, directly impacting the mission. Continued health and safety violations are associated with working environments and adverse impacts to recruiting, retention, and mission readiness will continue. Providing customer support for base comm and proper protocols for secure comm is a significant and constant challenge. Finally, training space for base engineers and disaster preparedness is reduced or eliminated impacting training requirements and mission readiness.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Space Standards" and is in compliance with the installation development plan. 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. 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 13693, 10 USC 2802(c) and other applicable laws and Executive Orders. Supporting facility costs are approximately 45% of the project cost due to unique requirements in relocating the communications switch and pile foundations needed. Because of the conditions on the island in the aftermath of the hurricanes and the high cost market resulting from so much damage recovery, construction and supporting facility cost are expected to be inflated. This project is considered capitalization based on the following rule from ANGETL 17-06: New Construction. Building 1: FCI = 71 (prior to Hurricane Maria). Facility slated for demolition due to hurricane damage.</p>			
CatCode 131-111 TELECOMMUNICATIONS FACILITY	Requirement 948 SM	Adequate 0 SM	Substandard 529 SM
COMMUNICATIONS FACILITY (131111)	762 SM = 8,200 SF		
OPEN CLASSIFIED STORAGE (131111)	186 SM = 2,000 SF		

1. COMPONENT ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE MAR 2019																												
3. INSTALLATION AND LOCATION LUIS MUNOZ MARIN INTERNATIONAL AIRPORT, PUERTO RICO																														
5. PROJECT TITLE COMMUNICATIONS FACILITY		7. PROJECT NUMBER TUMR189003																												
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Date Design Started</td> <td>OCT 2018</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td>Yes</td> </tr> <tr> <td>(c) Percent Complete as of Jan 2019</td> <td>15%</td> </tr> <tr> <td>* (d) Date 35% Designed</td> <td>FEB 2019</td> </tr> <tr> <td>(e) Date Design Complete</td> <td>AUG 2019</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td>Design-Build</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>Yes</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>No</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>783</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>522</td> </tr> <tr> <td>(c) Total</td> <td>1,305</td> </tr> <tr> <td>(d) Contract</td> <td>1,305</td> </tr> <tr> <td>(e) In-House</td> <td></td> </tr> </table> <p>(4) Contract Award (Month/Year) DEC 2019</p> <p>(5) Construction Start MAR 2020</p> <p>(6) Construction Completion JUL 2021</p> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p> <p>POINT OF CONTACT: NGB/A4AD (240) 612-9085</p>			(a) Date Design Started	OCT 2018	(b) Parametric Cost Estimates used to develop costs	Yes	(c) Percent Complete as of Jan 2019	15%	* (d) Date 35% Designed	FEB 2019	(e) Date Design Complete	AUG 2019	(f) Type of Design Contract	Design-Build	(g) Energy Study/Life-Cycle analysis was/will be performed	Yes	(a) Standard or Definitive Design -	No	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	783	(b) All Other Design Costs	522	(c) Total	1,305	(d) Contract	1,305	(e) In-House	
(a) Date Design Started	OCT 2018																													
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(g) Energy Study/Life-Cycle analysis was/will be performed	Yes																													
(a) Standard or Definitive Design -	No																													
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1. COMPONENT ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAR 2019
3. INSTALLATION AND LOCATION LUIS MUNOZ MARIN INTERNATIONAL AIRPORT, PUERTO RICO			4. PROJECT TITLE MAINTENANCE HANGAR	
5. PROGRAM ELEMENT 52276F	6. CATEGORY CODE 211-111	7. PROJECT NUMBER TUMR189004	8. PROJECT COST(\$000) \$37,500	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
MAINTENANCE HANGAR	SM	4,831		22,358
CONSTRUCT HANGAR (211111)	SM	2,601	4,628	( 12,037)
CONSTRUCT ADMIN AND SHOPS (VARIOUS)	SM	2,230	4,628	( 10,320)
SUPPORTING FACILITIES				9,750
FIRE SUPPRESSION SYSTEM	LS			( 5,500)
PAVEMENTS	LS			( 2,000)
SITE WORK	LS			( 750)
COMMUNICATIONS SUPPORT	LS			( 300)
UTILITIES	LS			( 700)
ELEVATORS	LS			( 500)
SUSTAINABILITY AND ENERGY MEASURES	LS			400
SUBTOTAL				32,508
CONTINGENCY (5%)				<u>1,625</u>
TOTAL CONTRACT COST				34,133
SUPERVISION, INSPECTION AND OVERHEAD (6%)				2,047
DESIGN BUILD – (DESIGN COST 4% CONTRACT COST)				<u>1,300</u>
TOTAL REQUEST				37,480
TOTAL REQUEST (ROUNDED)				37,500
10. Description of Proposed Construction: Construct a maintenance hangar with associated aircraft maintenance shops and administrative spaces utilizing conventional design and construction methods to accommodate the mission of the facility. Facility 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: Non Destructive Inspection (NDI) shop shall be protected for radiographic emissions. The base has moderate soil conditions and a high underground water table. The proposed building site requires reinforced foundations, drainage improvements, pavements and utilities upgrades. Air Conditioning: 350 KW.				
11. REQUIREMENT: 5,426 SM ADEQUATE: 0 SM SUBSTANDARD: 5,554 SM PROJECT: Construct C-130 Maintenance Hangar (Current Mission) REQUIREMENT: The 156th Airlift Wing was impacted by two major CAT-5 hurricanes (Irma and Maria) in September 2017 which caused catastrophic damage to the existing isochronal maintenance hangar rendering it unusable and beyond reasonable repair. The base requires an adequate facility for C-130 maintenance hangar functions, administrative functions, and shop areas that accommodate corrosion control and NDI testing. The facility must have sufficient lighting, heating, ventilation, fire protection/suppression, and environmental systems to effectively and safely support the mission. The facility shall meet applicable hurricane construction standards. CURRENT SITUATION: The 156 AW does not have an adequate facility which can support the full enclosure necessary for C-130 recurring maintenance requirements. There are no suitable workarounds. As an example, self-powered portable equipment are not efficient and detract from the training environment. The C-130 aircraft has many exterior surfaces which utilize composite materials.				

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5. PROJECT TITLE MAINTENANCE HANGAR		7. PROJECT NUMBER TUMR189004																				
<p>However, the unit does not have a composite materials shop or excess space that can be converted for that purpose. The only other covered aircraft hangar on base is for corrosion control and fuel cell maintenance and, therefore, not suitable for the purpose.</p> <p><b>IMPACT IF NOT PROVIDED:</b> C-130 Service Life Policy and recurring maintenance requirements intended to be performed in this proposed facility cannot be accomplished. The work cannot be performed outside on the parking apron. Adequate maintenance would have to be performed at another site thousands miles away in main land USA. This very costly work-around will also negatively impact operational training and maintenance schedules. The organization and corporate level will accept high risk to airlift deployments and training operations. The unit will not reach full operational capability. Readiness will be degraded. Training and maintenance time will be lost. Maintenance and repair costs will continue to be extremely high. Energy costs will continue to increase in this Caribbean, high salty and corrosive coastal climate. Lack of space and inadequate facility systems will adversely affect the maintenance performed on the C-130 aircraft. Low quality of life will affect morale, readiness, recruiting and retention.</p> <p><b>ADDITIONAL:</b> This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Space Standards" and is in compliance with the installation development plan. 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. 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 13693, 10 USC 2802(c) and other applicable laws and Executive Orders. Because of the conditions on the island in the aftermath of the hurricanes and the high cost market resulting from so much damage recovery, construction and supporting facility cost are expected to be inflated. This project is considered capitalization based on the following rule from ANGETL 17-06: New Construction. Building 1: FCI = 71 (prior to Hurricane Maria). Facility slated for demolition due to hurricane damage.</p> <table border="0"> <thead> <tr> <th>CatCode</th> <th>Requirement</th> <th>Adequate</th> <th>Substandard</th> </tr> </thead> <tbody> <tr> <td>211-111 AIRCRAFT MAINTENANCE HANGAR</td> <td>2,601 SM</td> <td>0 SM</td> <td>3,178 SM</td> </tr> <tr> <td>211-152 AIRCRAFT GENERAL PURPOSE (GP) SHOPS</td> <td>1,802 SM</td> <td>0 SM</td> <td>881 SM</td> </tr> <tr> <td>610-129 WEAPON SYS MAINT MGMT (WSMM)</td> <td>650 SM</td> <td>0 SM</td> <td>1,267 SM</td> </tr> <tr> <td>211-153 NON-DESTRUCTIVE INSPECTION (NDI)</td> <td>372 SM</td> <td>0 SM</td> <td>228 SM</td> </tr> </tbody> </table> <p>CONSTRUCT HANGAR (211111) 2,601 SM = 28,000 SF  CONSTRUCT ADMIN AND SHOPS (VARIOUS) 2,230 SM = 24,000 SF</p>			CatCode	Requirement	Adequate	Substandard	211-111 AIRCRAFT MAINTENANCE HANGAR	2,601 SM	0 SM	3,178 SM	211-152 AIRCRAFT GENERAL PURPOSE (GP) SHOPS	1,802 SM	0 SM	881 SM	610-129 WEAPON SYS MAINT MGMT (WSMM)	650 SM	0 SM	1,267 SM	211-153 NON-DESTRUCTIVE INSPECTION (NDI)	372 SM	0 SM	228 SM
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5. PROJECT TITLE MAINTENANCE HANGAR		7. PROJECT NUMBER TUMR189004																												
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Date Design Started</td> <td>OCT 2018</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td>Yes</td> </tr> <tr> <td>(c) Percent Complete as of Jan 2019</td> <td>15%</td> </tr> <tr> <td>* (d) Date 35% Designed</td> <td>FEB 2019</td> </tr> <tr> <td>(e) Date Design Complete</td> <td>AUG 2019</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td>Design-Build</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>Yes</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>No</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>1,827</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>1,218</td> </tr> <tr> <td>(c) Total</td> <td>3,045</td> </tr> <tr> <td>(d) Contract</td> <td>3,045</td> </tr> <tr> <td>(e) In-House</td> <td></td> </tr> </table> <p>(4) Contract Award (Month/Year) DEC 2019</p> <p>(5) Construction Start MAR 2020</p> <p>(6) Construction Completion MAR 2022</p> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p> <p>POINT OF CONTACT: NGB/A4AD (240) 612-9085</p>			(a) Date Design Started	OCT 2018	(b) Parametric Cost Estimates used to develop costs	Yes	(c) Percent Complete as of Jan 2019	15%	* (d) Date 35% Designed	FEB 2019	(e) Date Design Complete	AUG 2019	(f) Type of Design Contract	Design-Build	(g) Energy Study/Life-Cycle analysis was/will be performed	Yes	(a) Standard or Definitive Design -	No	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	1,827	(b) All Other Design Costs	1,218	(c) Total	3,045	(d) Contract	3,045	(e) In-House	
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1. COMPONENT ANG	<b>FY 2020 GUARD AND RESERVE MILITARY CONSTRUCTION</b>	2. DATE MAR 2019																								
3. INSTALLATION AND LOCATION DANE COUNTY REGIONAL-TRUAX FIELD, MADISON		4. AREA CONSTR COST INDEX 1.06																								
5. FREQUENCY AND TYPE OF UTILIZATION Forty Eight (48) unit training assemblies per year, Fifteen (15) days annual field training per year, daily use by full time work force consisting of technicians, State employees, and AGR's for unit training and mission accomplishment.																										
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS Four Army National Guard Center, two Army Reserve Centers and one Naval/Marine Reserve Center. 1 Naval/Marine Corps Reserve Center 2 Miles 2 Army Reserve Center 2 Miles/7 Miles 4 Wisc National Guard Armories .2 Miles/.3 Miles/.5 Miles/2 Miles																										
7. PROJECTS REQUESTED IN THIS PROGRAM  <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY</th> <th></th> <th></th> <th style="text-align: right;">COST</th> <th colspan="2" style="text-align: center;"><u>DESIGN STATUS</u></th> </tr> <tr> <th style="text-align: left;"><u>CODE</u></th> <th style="text-align: left;"><u>PROJECT TITLE</u></th> <th style="text-align: left;"><u>SCOPE</u></th> <th style="text-align: right;"><u>\$(000)</u></th> <th style="text-align: left;"><u>START</u></th> <th style="text-align: left;"><u>COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>171-212</td> <td>F-35 Simulator Facility</td> <td>1,765 SM (19,000 SF)</td> <td style="text-align: right;">14,000</td> <td>Aug 18</td> <td>Oct 19</td> </tr> <tr> <td>141-183</td> <td>Fighter Alert Shelters</td> <td>2,601 SM (28,000 SF)</td> <td style="text-align: right;">20,000</td> <td>Dec 18</td> <td>Jan 20</td> </tr> </tbody> </table>			CATEGORY			COST	<u>DESIGN STATUS</u>		<u>CODE</u>	<u>PROJECT TITLE</u>	<u>SCOPE</u>	<u>\$(000)</u>	<u>START</u>	<u>COMPLETE</u>	171-212	F-35 Simulator Facility	1,765 SM (19,000 SF)	14,000	Aug 18	Oct 19	141-183	Fighter Alert Shelters	2,601 SM (28,000 SF)	20,000	Dec 18	Jan 20
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8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION The Board recommendations are: Unilateral Construction Approved  <div style="text-align: right;"><u>04 Mar 18</u> (Date)</div>																										
9. LAND ACQUISITION REQUIRED  <div style="text-align: right;"><u>None</u> (Number of Acres)</div>																										
10. PROJECTS PLANNED IN NEXT FOUR YEARS  <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY</th> <th></th> <th></th> <th style="text-align: right;">COST</th> </tr> <tr> <th style="text-align: left;"><u>CODE</u></th> <th style="text-align: left;"><u>PROJECT TITLE</u></th> <th style="text-align: left;"><u>SCOPE</u></th> <th style="text-align: right;"><u>\$(000)</u></th> </tr> </thead> <tbody> <tr> <td>211-179</td> <td>F-35 Fuel Cell &amp; Wash Rack</td> <td>1,579 SM (17,000 SF)</td> <td style="text-align: right;">12,200</td> </tr> <tr> <td>171-450</td> <td>Medical Readiness Facility</td> <td>1,733 SM (18,650 SF)</td> <td style="text-align: right;">8,500</td> </tr> <tr> <td>730-837</td> <td>Const Inst Entry Cntrl Fac</td> <td>214 SM (2,300 SF)</td> <td style="text-align: right;">2,000</td> </tr> <tr> <td colspan="4" style="padding-left: 40px;">R&amp;M Unfunded Requirement: \$22,630,000</td> </tr> </tbody> </table>			CATEGORY			COST	<u>CODE</u>	<u>PROJECT TITLE</u>	<u>SCOPE</u>	<u>\$(000)</u>	211-179	F-35 Fuel Cell & Wash Rack	1,579 SM (17,000 SF)	12,200	171-450	Medical Readiness Facility	1,733 SM (18,650 SF)	8,500	730-837	Const Inst Entry Cntrl Fac	214 SM (2,300 SF)	2,000	R&M Unfunded Requirement: \$22,630,000			
CATEGORY			COST																							
<u>CODE</u>	<u>PROJECT TITLE</u>	<u>SCOPE</u>	<u>\$(000)</u>																							
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1. COMPONENT ANG	<b>FY 2020 GUARD AND RESERVE MILITARY CONSTRUCTION</b>				2. DATE MAR 2019		
3. INSTALLATION AND LOCATION DANE COUNTY REGIONAL-TRUAX FIELD, MADISON							
11. PERSONNEL STRENGTH AS OF 04 Apr 18							
		PERMANENT			GUARD/RESERVE		
	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>	<u>CIVILIAN</u>	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>
AUTHORIZED	485	46	366	73	1,135	140	995
ACTUAL	486	46	365	75	1,133	147	986
12. RESERVE UNIT DATA							
	<u>UNIT DESIGNATION</u>	<u>AUTHORIZED</u>		<u>STRENGTH</u>		<u>ACTUAL</u>	
	115 Comptroller Flight	12				14	
	115 Aircraft Maintenance Squadron	227				186	
	115 Detachment 1	47				59	
	378 Fighter Squadron	50				21	
	ANG ANG State Headquarters	39				43	
	115 Civil Engineering Squadron	51				45	
	115 Communication Flight	31				44	
	115 Force Support Squadron	60				66	
	115 Fighter Wing	51				57	
	115 Logistics Readiness Squadron	78				76	
	115 Medical Group	42				40	
	115 Maintenance Operations Flight	23				19	
	115 Mission Support Group	13				15	
	115 Maintenance Group	27				26	
	115 Maintenance Squadron	261				231	
	115 Operations Group	13				11	
	115 Operations Support Flight	41				39	
	115 Security Forces Squadron	73				65	
	115 Student Flight	21				0	
	176 Fighter Squadron	31				28	
	TOTALS	1,191				1,085	
13. MAJOR EQUIPMENT AND AIRCRAFT							
	<u>TYPE</u>	<u>AUTHORIZED</u>		<u>ACTUAL</u>			
	RC-26B	1				1	
	Support Equipment	280				271	
	Vehicles	108				105	
	F-16 Aircraft	18				18	

1. COMPONENT ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAR 2019
3. INSTALLATION AND LOCATION DANE COUNTY REGIONAL-TRUAX FIELD, WISCONSIN			4. PROJECT TITLE F-35 SIMULATOR FACILITY	
5. PROGRAM ELEMENT 52635F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER XGFG189001	8. PROJECT COST(\$000) \$14,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
F-35 SIMULATOR FACILITY	SM	1,765		11,780
FLIGHT SIMULATOR FACILITY (171212)	SM	1,765	6,674	( 11,780)
SUPPORTING FACILITIES				591
DEMO BLDG 410	SM	432	269	( 116)
UTILITIES	LS			( 125)
PAVEMENTS	LS			( 125)
SITE IMPROVEMENTS	LS			( 100)
SECURITY ALARMS	LS			( 50)
COMMUNICATIONS SUPPORT	LS			( 75)
ENERGY AND SUSTAINABILITY MEASURES	LS			125
SUBTOTAL				12,496
CONTINGENCY (5%)				625
TOTAL CONTRACT COST				13,121
SUPERVISION, INSPECTION AND OVERHEAD (6%)				787
TOTAL REQUEST				13,908
TOTAL REQUEST (ROUNDED)				14,000
10. Description of Proposed Construction: Construct a 4-ship F-35 simulator 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: Raised flooring as required, high bay area for simulators. Secure areas with specifications and construction in accordance with ICD/ICS 705 is necessary for designated parts of the facility. Air Conditioning: 105 KW.				
11. REQUIREMENT: 1,765 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM <u>PROJECT:</u> F-35 Simulator Facility (New Mission) <u>REQUIREMENT:</u> The installation requires a facility to support a new 4-ship F-35 training simulator capable of housing 4 simulator bays, briefing rooms, training rooms, administrative support areas, storage, and latrine space, certified to ICD/ICS 705 standards. Each simulator bay must be large enough to accommodate an eight channel, 360-degree field of view display with sufficient space to facilitate installation, removal, operation, and servicing. <u>CURRENT SITUATION:</u> The installation is scheduled to receive new F-35 flight simulators, and the base does not possess excess or suitable space to bed down the simulator devices and conduct supporting training and maintenance activities. This function is ideally suited for inclusion in or near the Squadron Operations facility, but that building is already at capacity and cannot accommodate this enhancement. No other facility is available to appropriately accommodate this function as well. The function needs to be in close proximity to Squadron Operations and the flight line in order to maximize training value and support efficient flight operations and aircrew training and management.				

1. COMPONENT  ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE  MAR 2019															
3. INSTALLATION AND LOCATION  DANE COUNTY REGIONAL-TRUAX FIELD, WISCONSIN																	
5. PROJECT TITLE  F-35 SIMULATOR FACILITY	7. PROJECT NUMBER  XGFG189001																
<p><u>IMPACT IF NOT PROVIDED:</u> Failure to beddown the new F-35 simulators on time will delay the new mission standup at Truax Field. This will result in the unit being unable to gain maximum efficiency in the training, proficiency, and mission readiness of its fighter pilots. According to the Air Combat Command F-35A Fleet Basing Strategy: The Full Mission Simulators (FMS) "will be integral to achieving operational training requirements." Lack of realistic multi-aircraft, multi-platform combat training directly and severely reduces the mission effectiveness and combat readiness of the Wing. Personnel would need to perform temporary duty elsewhere in order to obtain requisite training, resulting in increased costs for travel and increased time away from the installation and other duty assignments for personnel. Personnel utilization would be highly inefficient. High value, state-of-the-art equipment would go un-used and occupy space in storage.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Space Standards" and is in compliance with the installation development plan. 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 13693, 10 USC 2802(c) and other applicable laws and Executive Orders. This project is considered capitalization based on the following rule from ANGETL 17-06: New Construction. Simulator facility will be constructed on the existing site of building 410. The following buildings will be demolished as a result of this project: Bldg. 410 (at 432 SM). Building 410 is in the way of construction.</p> <table border="0" data-bbox="235 1108 1409 1281"> <thead> <tr> <th data-bbox="235 1108 341 1140">CatCode</th> <th data-bbox="341 1108 906 1140"></th> <th data-bbox="906 1108 1096 1140">Requirement</th> <th data-bbox="1096 1108 1258 1140">Adequate</th> <th data-bbox="1258 1108 1409 1140">Substandard</th> </tr> </thead> <tbody> <tr> <td data-bbox="235 1140 341 1171">171-212</td> <td data-bbox="341 1140 906 1171">FLGHT SIMULATOR TRAINING</td> <td data-bbox="906 1140 1096 1171">1,765 SM</td> <td data-bbox="1096 1140 1258 1171">0 SM</td> <td data-bbox="1258 1140 1409 1171">1,765 SM</td> </tr> <tr> <td colspan="2" data-bbox="235 1245 906 1276">FLIGHT SIMULATOR FACILITY (171212)</td> <td colspan="3" data-bbox="906 1245 1409 1276">1,765 SM = 19,000 SF</td> </tr> </tbody> </table>			CatCode		Requirement	Adequate	Substandard	171-212	FLGHT SIMULATOR TRAINING	1,765 SM	0 SM	1,765 SM	FLIGHT SIMULATOR FACILITY (171212)		1,765 SM = 19,000 SF		
CatCode		Requirement	Adequate	Substandard													
171-212	FLGHT SIMULATOR TRAINING	1,765 SM	0 SM	1,765 SM													
FLIGHT SIMULATOR FACILITY (171212)		1,765 SM = 19,000 SF															

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3. INSTALLATION AND LOCATION DANE COUNTY REGIONAL-TRUAX FIELD, WISCONSIN			
5. PROJECT TITLE F-35 SIMULATOR FACILITY		7. PROJECT NUMBER XGFG189001	
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started		AUG 2018	
(b) Parametric Cost Estimates used to develop costs		Yes	
(c) Percent Complete as of Jan 2019		40%	
* (d) Date 35% Designed		OCT 2018	
(e) Date Design Complete		OCT 2019	
(f) Type of Design Contract		IDIQ	
(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		974	
(b) All Other Design Costs		0	
(c) Total		974	
(d) Contract		974	
(e) In-House			
(4) Contract Award (Month/Year)		MAR 2020	
(5) Construction Start		APR 2020	
(6) Construction Completion		JAN 2022	
* 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 NOMENCLATURE	PROCURING APPROPRIATION	FY APPROPRIATED OR REQUESTED	COST (\$000)
Four F-35 Flight Simulators and One Multi Spectral Database (MSDB)	3010	2 Simulators and MSDB in FY19 2 Simulators in FY20	25,000 19,500
POINT OF CONTACT: NGB/A4AD (240) 612-9085			

1. COMPONENT ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAR 2019
3. INSTALLATION AND LOCATION DANE COUNTY REGIONAL-TRUAX FIELD, WISCONSIN			4. PROJECT TITLE FIGHTER ALERT SHELTERS	
5. PROGRAM ELEMENT 52276F	6. CATEGORY CODE 141-183	7. PROJECT NUMBER XGFG189004	8. PROJECT COST(\$000) \$20,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
CONSTRUCT ALERT SHELTERS	SM	2,601		12,599
FIGHTER ALERT SHELTERS (141183)	SM	2,601	4,844	( 12,599)
SUPPORTING FACILITIES				5,300
REPAIR APRON	LS			( 1,000)
FIRE SUPPRESSION SUPPORT	LS			( 2,500)
BACKUP POWER	LS			( 250)
SITE IMPROVEMENTS	LS			( 400)
INTRUSION DETECTION SYSTEM SUPPORT	LS			( 200)
SECURITY LIGHTING	LS			( 200)
COMMUNICATIONS SUPPORT	LS			( 150)
UTILITY SUPPORT	LS			( 600)
SUSTAINABILITY AND ENERGY MEASURES	LS			325
SUBTOTAL				18,224
CONTINGENCY (5%)				911
TOTAL CONTRACT COST				19,135
SUPERVISION, INSPECTION AND OVERHEAD (6%)				1,148
TOTAL REQUEST				20,283
TOTAL REQUEST (ROUNDED)				20,000
10. Description of Proposed Construction: Construct two aircraft shelters for four universal fighter aircraft 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: Each shelter houses two aircraft with automatic opening front and rear aircraft doors; heating, fire detection and ultra-high pressure fire suppression system/closed head wet-pipe sprinkler fire suppression systems. Provide support for Intrusion Detection System (IDS). Install backup emergency generator.				
11. REQUIREMENT: 2,601 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM PROJECT: Construct Fighter Alert Shelters (Current Mission) REQUIREMENT: The 115th Fighter Wing (FW) requires properly sited, sized, and configured Air Sovereignty Alert (ASA) Fighter Aircraft Alert Shelters for sheltering, parking, servicing, loading and unloading fighter aircraft on alert status that must respond within prescribed time limits for the Air Sovereignty Alert mission. The alert hangars, apron, and taxiway must be part of an alert complex that has direct runway access, is sited to comply with explosive Quantity Distance (QD) requirements, airfield restrictive distances and surfaces, and pertinent fire codes. Aircraft shelters must have fire suppression, backup power generation, support for IDS systems, and communications connectivity. CURRENT SITUATION: The 115 FW currently operates 18 PAA F-16 aircraft and is tasked as an ASA location in support of NORAD Aerospace Control and NORTHCOM homeland defense missions. The 115 FW has been selected as a preferred location for the next Air National Guard wing to convert to the F-35. Although the 115 FW is converting to a 5th generation fighter, the ASA mission will				

1. COMPONENT ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE MAR 2019	
3. INSTALLATION AND LOCATION DANE COUNTY REGIONAL-TRUAX FIELD, WISCONSIN			
5. PROJECT TITLE FIGHTER ALERT SHELTERS	7. PROJECT NUMBER XGFG189004		
<p>continue to be filled by 4th generation aircraft. The existing alert facility serves eight aircraft; four for the alert mission and four for wing training sorties. Dissimilar aircraft cannot be stored in the same hangar as aircraft standing alert, making it necessary to build a new alert shelters to support the four, 4th generation fighters that will be tasked with the alert mission. The existing eight bay hangar will be converted to support the new mission of the 115 FW through a separate modernization project.</p> <p><b>IMPACT IF NOT PROVIDED:</b> NORAD Aerospace Control and NORTHCOM will be forced to either abandon the Air Sovereignty Alert (ASA) mission at Truax Field or forced to house alert aircraft on open airfield pavement surfaces. As such, during winter climatic events, alert crews will be forced to continually remove snow from aircraft so that they are able to meet mission required response times. Additionally, aircrew's will be forced to predominately store the jet with the canopy closed to avoid untimely weather events which in turn will increase ASA response times.</p> <p><b>ADDITIONAL:</b> This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Space Standards" and is in compliance with the installation development plan. 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. 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 13693, 10 USC 2802(c) and other applicable laws and Executive Orders. This project is considered capitalization based on the following rule from ANGETL 17-06: New Construction.</p>			
CatCode 141-183 ALERT HANGAR	Requirement 2,601 SM	Adequate 0 SM	Substandard 0 SM
FIGHTER ALERT SHELTERS (141183)	2,601 SM = 28,000 SF		



1. COMPONENT ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE MAR 2019																												
3. INSTALLATION AND LOCATION DANE COUNTY REGIONAL-TRUAX FIELD, WISCONSIN																														
5. PROJECT TITLE FIGHTER ALERT SHELTERS		7. PROJECT NUMBER XGFG189004																												
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Date Design Started</td> <td>DEC 2018</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td>Yes</td> </tr> <tr> <td>(c) Percent Complete as of Jan 2019</td> <td>8%</td> </tr> <tr> <td>* (d) Date 35% Designed</td> <td>AUG 2019</td> </tr> <tr> <td>(e) Date Design Complete</td> <td>JAN 2020</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td>IDIQ</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>Yes</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>No</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>1,253</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>1,045</td> </tr> <tr> <td>(c) Total</td> <td>2,298</td> </tr> <tr> <td>(d) Contract</td> <td>1,828</td> </tr> <tr> <td>(e) In-House</td> <td>470</td> </tr> </table> <p>(4) Contract Award (Month/Year) MAR 2020</p> <p>(5) Construction Start APR 2020</p> <p>(6) Construction Completion JAN 2022</p> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>b. Equipment associated with this project will be provided from other appropriations:</p> <p>POINT OF CONTACT: NGB/A4AD (240) 612-9085</p>			(a) Date Design Started	DEC 2018	(b) Parametric Cost Estimates used to develop costs	Yes	(c) Percent Complete as of Jan 2019	8%	* (d) Date 35% Designed	AUG 2019	(e) Date Design Complete	JAN 2020	(f) Type of Design Contract	IDIQ	(g) Energy Study/Life-Cycle analysis was/will be performed	Yes	(a) Standard or Definitive Design -	No	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	1,253	(b) All Other Design Costs	1,045	(c) Total	2,298	(d) Contract	1,828	(e) In-House	470
(a) Date Design Started	DEC 2018																													
(b) Parametric Cost Estimates used to develop costs	Yes																													
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**DEPARTMENT OF THE AIR FORCE  
AIR NATIONAL GUARD**

JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 2020

APPROPRIATION:	MILITARY CONSTRUCTION	AIR NATIONAL GUARD
PROGRAM 313:	PLANNING AND DESIGN	\$17,000,000

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.

1. COMPONENT ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAR 2019	
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		4. PROJECT TITLE PLANNING AND DESIGN			
5. PROGRAM ELEMENT 52276F	6. CATEGORY CODE 961-000	7. PROJECT NUMBER PAYZ200005	8. PROJECT COST(\$000) \$17,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
PLANNING AND DESIGN (P-313)		LS			17,000
SUBTOTAL					17,000
TOTAL CONTRACT COST					17,000
TOTAL REQUEST					17,000
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 <u>PROJECT:</u> Planning and Design <u>REQUIREMENT:</u> The ANG requires planning and design funds for projects that are to be included in future MILCON programs. The FY 2020 design funds are needed to complete the design for those projects that are to be included in the FY 2020 MILCON program and to begin the design for those projects to be included in the FY 2021 program. Funds also provide for design of the FY 2020 unspecified minor construction program. <u>CURRENT SITUATION:</u> The ANG requires the design money in FY 2020 to ensure the design milestones for the FY 2020 and FY 2021 MILCON Programs, as mandated by Department of Defense (DoD) Instruction 1225.8, are met. <u>IMPACT IF NOT PROVIDED:</u> 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.					

**DEPARTMENT OF THE AIR FORCE  
AIR NATIONAL GUARD**

JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 2020

APPROPRIATION:	MILITARY CONSTRUCTION	AIR NATIONAL GUARD
PROGRAM 341:	UNSPECIFIED MINOR CONSTRUCTION	\$31,471,000

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 \$2,000,000 but not exceeding \$6,000,000, adjusted by area cost factor, 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.

1. COMPONENT ANG	FY 2020 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAR 2019	
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		4. PROJECT TITLE UNSPECIFIED MINOR CONSTRUCTION			
5. PROGRAM ELEMENT 52276F	6. CATEGORY CODE 962-000	7. PROJECT NUMBER PAYZ200006	8. PROJECT COST(\$000) \$31,471		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
UNSPECIFIED MINOR CONSTRUCTION (P-341)		LS			31,471
SUBTOTAL					31,471
TOTAL CONTRACT COST					31,471
TOTAL REQUEST					31,471
10. Description of Proposed Construction: Provides funding for unspecified minor construction projects not otherwise authorized by law and having a funded cost between \$2,000,000 and \$6,000,000 (adjusted by Area Cost Factor). 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 <u>PROJECT:</u> Unspecified Minor Construction Program <u>REQUIREMENT:</u> This program provides the means of accomplishing projects costing over \$2,000,000, but not exceeding \$6,000,000 (adjusted by Area Cost Factor). The requested funds are not a percent of the budget, but are based on historical trends and known requirements. These projects generally address functional space shortfalls or urgent new mission beddowns. <u>CURRENT SITUATION:</u> Because of new weapons systems, equipment, mission, and personnel growth the Air National Guard has a number of instances where functional space shortfalls exist. Many drive new construction requirements in the \$2,000,000 to \$6,000,000 (adjusted by Area Cost Factor) range. These functional space shortfalls cause degradation of mission accomplishment, costly workarounds, and accelerated failure of valuable mission equipment. <u>IMPACT IF NOT PROVIDED:</u> Unable to adequately support mission conversions and beddowns. Functional space shortfalls will continue. More expensive workarounds will have to be used.					

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**DEPARTMENT OF THE AIR FORCE  
AIR NATIONAL GUARD  
MILITARY CONSTRUCTION PROGRAM FOR FISCAL YEAR 2020**

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**SECTION III**

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**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 FY19PB	Explanation of Changes	Footprint
Guard	21	3830	FAKZ189019	Montgomery Regional Airport (ANG) Base	AL	F-35 Simulator Facility	52635F	171-212	11,600		New Mission for F-35	New
Guard	21	3830	FAKZ990088	Montgomery Regional Airport (ANG) Base	AL	Base Supply Complex	52276F	442-768	12,000			
Guard	21	3830	AJXF189013	Joint Base Andrews	MD	F-16 Mission Training Center	54332F	171-212	6,500			New
Guard	21	3830	TDVG029067	Alpena County Regional Airport	MI	Aircraft Maintenance Hangar/Shops	52276F	211-111	20,000			New
Guard	21	3830	LRXQ109002	Jackson International Airport	MS	Fire Crash and Rescue Station	52276F	130-142	9,300	300	Updated PA based on new cost estimate	
Guard	21	3830	KELL189014	Kelly Field Annex	TX	F-16 Mission Training Center	54332F	171-212	6,500			New
Guard	21	3830	PAYZ210005	Unspecified	VL	Planning and Design	52276F	961-000	15,200			
Guard	21	3830	PAYZ210006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	30,821			
Guard	21	3830	AAAA189001	VARIOUS LOCATIONS	VS	Space Control Facility	C5116F	141-464	20,000	12,000	Updated cost estimate based on estimated area cost factor	New
Guard	21	3830	XGFG189002	Dane County Regional-Truax Field	WI	F-35 Fuel Cell & Wash Rack	52635F	211-179	12,200		New Mission for F-35	New
Guard	21	3830	HTUV189001	General Mitchell International Airport	WI	Indoor Small Arms Range	52276F	179-475	7,100			
						<b>TOTAL MAJOR CONSTRUCTION</b>			<b>151,221</b>			



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 FY19PB	Explanation of Changes	Footprint
Guard	22	3830	FAKZ039172	Montgomery Regional Airport (ANG) Base	AL	F-35 Munitions Load Crew Training Facility	52635F	171-875	7,400		New Mission for F-35	New
Guard	22	3830	XHEA109012	Tucson International Airport	AZ	Construct Base Entry Complex	52276F	730-839	8,000	2,000	Updated PA based on new cost estimate	New
Guard	22	3830	CRWU139039	Buckley Air Force Base	CO	ADAL Corrosion Control/Fuel Cell	52276F	211-159	12,000			
Guard	22	3830	BXRH019031	BOISE AIR TERMINAL (GOWEN FIELD)	ID	Operations, Training and Medical Facility	52276F	171-445	11,600			
Guard	22	3830	DCFT059018	Abraham Lincoln Capital Airport	IL	Base Civil Engineer Complex	52276F	219-944	10,200			
Guard	22	3830	AXQD049060	Barnes Municipal Airport	MA	Combined Engine/ASE/NDI Shop	52276F	211-157	10,000			
Guard	22	3830	KKGA169022	Hector International Airport	ND	Consolidated RPA Operations Facility	52276F	141-753	17,500	8,700	Updated PA based on new scope/cost estimate	
Guard	22	3830	EUBC009109	Camp Perry ANG Station	OH	RED HORSE Logistics Complex	52276F	442-768	7,800			
Guard	22	3830	PSTE159098	McEntire Joint National Guard Base	SC	Hazardous Cargo Pad	52276F	116-862	9,000			New
Guard	22	3830	LUXC169012	Joe Foss Field	SD	F-16 Mission Training Center	54332F	171-212	6,500			New
Guard	22	3830	PAYZ220005	Unspecified	VL	Planning and Design	52276F	961-000	18,700			
Guard	22	3830	PAYZ220006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	28,602			

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 FY19PB	Explanation of Changes	Footprint
Guard	22	3830	ETRD169847	Camp Murray ANG Station	WA	Air Support Operations Complex	52276F	141-753	27,000	3,000	Updated PA based on new cost estimate	
Guard	22	3830	DPEZ019000	Cheyenne Regional Airport	WY	Combined Vehicle Maintenance & ASE Complex	52276F	214-425	13,400	5,400	Updated PA based on new scope/cost estimate	
						<b>TOTAL MAJOR CONSTRUCTION</b>			<b>187,702</b>			
Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount (\$000)	Change from FY19PB	Explanation of Changes	Footprint
Guard	23	3830	BRKR009063	Sumpster Smith Air National Guard Base	AL	Security and Services Training Facility	52276F	730-835	7,500			
Guard	23	3830	CEKT179200	Bradley International Airport	CT	Composite ASE/Vehicle Mx Facility	52276F	218-712	15,000			
Guard	23	3830	ATOZ169004	Fort Wayne International Airport	IN	Munitions Maintenance & Storage Complex	52276F	216-642	8,100			
Guard	23	3830	MBMV099170	W. K. Kellogg Airport	MI	Construct Main Base Entrance	52276F	730-839	10,000	3,000	Updated PA based on new cost estimate	
Guard	23	3830	VBDZ179043	Schenectady County Airport	NY	C-130 Flight Simulator Facility	54332F	171-212	9,000	700	Updated PA based on cost estimate	New
Guard	23	3830	XHZG999515	Tulsa International Airport	OK	Munitions Storage Area	52276F	216-642	15,500			
Guard	23	3830	TWLR159090	Quonset State Airport	RI	Consolidated Headquarters, Dining & Medical	52276F	171-445	23,000			
Guard	23	3830	PSTE189001	McEntire Joint National Guard Base	SC	F-16 Mission Training Center	54332F	171-212	6,700			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 FY19PB	Explanation of Changes	Footprint
Guard	23	3830	PAYZ230005	Unspecified	VL	Planning and Design	52276F	961-000	12,600			
Guard	23	3830	PAYZ230006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	19,301			
						<b>TOTAL MAJOR CONSTRUCTION</b>			<b>126,701</b>			
Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount (\$000)	Change from FY19PB	Explanation of Changes	Footprint
Guard	24	3830	JLWS019054	New Castle County Airport	DE	Replace Fuel Cell/Corrosion Control Hangar	52276F	211-179	15,100			
Guard	24	3830	SAKW109201	NORTHWEST FIELD-ANDERSEN AFB	GU	RED HORSE Operations Facility	52276F	171-445	14,000	6,600	Updated PA based on cost estimate and area cost factor	New
Guard	24	3830	ULYB049048	Rosecrans Memorial Airport	MO	Aircraft Parking Apron	52276F	113-321	17,100			New
Guard	24	3830	WKVB159088	Francis S. Gabreski Airport	NY	Base Civil Engineer Complex	52276F	219-944	11,200			
Guard	24	3830	PSXE139013	McGhee Tyson Airport	TN	KC-135 Maintenance Shops	52276F	218-712	17,500	1,000	Updated PA based on new cost estimate	
Guard	24	3830	PAYZ240005	Unspecified	VL	Planning and Design	52276F	961-000	12,000			
Guard	24	3830	PAYZ240006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	25,645			
						<b>TOTAL MAJOR CONSTRUCTION</b>			<b>112,545</b>			

**DEPARTMENT OF THE AIR FORCE  
AIR NATIONAL GUARD  
MILITARY CONSTRUCTION PROGRAM FOR FISCAL YEAR 2020**

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**SECTION III**

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**FUTURE YEARS DEFENSE PLAN (FYDP)**

**STATE/INSTALLATION LISTING**

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

Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount (\$000)	Change from FY18PB	Explanation of Changes	Footprint
Guard	21	3830	FAKZ189019	Montgomery Regional Airport (ANG) Base	AL	F-35 Simulator Facility	52635F	171-212	11,600		New Mission for F-35	New
Guard	21	3830	FAKZ990088	Montgomery Regional Airport (ANG) Base	AL	Base Supply Complex	52276F	442-768	12,000			
Guard	22	3830	FAKZ039172	Montgomery Regional Airport (ANG) Base	AL	F-35 Munitions Load Crew Training Facility	52635F	171-875	7,400		New Mission for F-35	New
Guard	23	3830	BRKR009063	Sumpter Smith Air National Guard Base	AL	Security and Services Training Facility	52276F	730-835	7,500			
Guard	22	3830	XHEA109012	Tucson International Airport	AZ	Construct Base Entry Complex	52276F	730-839	8,000	2,000	Updated PA based on new cost estimate	New
Guard	22	3830	CRWU139039	Buckley Air Force Base	CO	ADAL Corrosion Control/Fuel Cell	52276F	211-159	12,000			
Guard	23	3830	CEKT179200	Bradley International Airport	CT	Composite ASE/Vehicle Mx Facility	52276F	218-712	15,000			
Guard	24	3830	JLWS019054	New Castle County Airport	DE	Replace Fuel Cell/Corrosion Control Hangar	52276F	211-179	15,100			

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

Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount (\$000)	Change from FY19PB	Explanation of Changes	Footprint
Guard	24	3830	SAKW109201	NORTHWEST FIELD-ANDERSEN AFB	GU	RED HORSE Operations Facility	52276F	171-445	14,000	6,600	Updated PA based on cost estimate and area cost factor	New
Guard	22	3830	BXRH019091	BOISE AIR TERMINAL (GOWEN FIELD)	ID	Operations, Training and Medical Facility	52276F	171-445	11,600			
Guard	22	3830	DCFT059018	Abraham Lincoln Capital Airport	IL	Base Civil Engineer Complex	52276F	219-944	10,200			
Guard	23	3830	ATQZ169004	Fort Wayne International Airport	IN	Munitions Maintenance & Storage Complex	52276F	216-642	8,100			
Guard	22	3830	AXGD049060	Barnes Municipal Airport	MA	Combined Engine/ASE/NDI Shop	52276F	211-157	10,000			
Guard	21	3830	AJXF189013	Joint Base Andrews	MD	F-16 Mission Training Center	54332F	171-212	6,500			New
Guard	21	3830	TDVG029067	Alpena County Regional Airport	MI	Aircraft Maintenance Hangar/Shops	52276F	211-111	20,000			New

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

Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount (\$000)	Change from FY19PB	Explanation of Changes	Footprint
Guard	23	3830	MBMV098170	W. K. Kellogg Airport	MI	Construct Main Base Entrance	52276F	730-839	10,000	3,000	Updated PA based on new cost estimate	
Guard	24	3830	ULYB049048	Rosecrans Memorial Airport	MO	Aircraft Parking Apron	52276F	113-321	17,100			New
Guard	21	3830	LRXQ109002	Jackson International Airport	MS	Fire Crash and Rescue Station	52276F	130-142	9,300	300	Updated PA based on new cost estimate	
Guard	22	3830	KKGA169022	Hector International Airport	ND	Consolidated RPA Operations Facility	52276F	141-763	17,500	8,700	Updated PA based on new scope/cost estimate	
Guard	24	3830	WKVB159088	Francis S. Gabreski Airport	NY	Base Civil Engineer Complex	52276F	219-944	11,200			
Guard	23	3830	VBDZ179043	Schenectady County Airport	NY	C-130 Flight Simulator Facility	54332F	171-212	9,000	700	Updated PA based on cost estimate	New
Guard	22	3830	EUBC009109	Camp Perry ANG Station	OH	RED HORSE Logistics Complex	52276F	442-768	7,800			

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

Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount (\$000)	Change from FY19PB	Explanation of Changes	Footprint
Guard	23	3830	XHZG899515	Tulsa International Airport	OK	Munitions Storage Area	52276F	216-642	15,500			
Guard	23	3830	TWLR159090	Quonset State Airport	RI	Consolidated Headquarters, Dining & Medical	52276F	171-445	23,000			
Guard	22	3830	PSTE159098	McEntire Joint National Guard Base	SC	Hazardous Cargo Pad	52276F	116-662	9,000			New
Guard	23	3830	PSTE189001	McEntire Joint National Guard Base	SC	F-16 Mission Training Center	54332F	171-212	6,700			New
Guard	22	3830	LUXC189012	Joe Foss Field	SD	F-16 Mission Training Center	54332F	171-212	6,500			New
Guard	24	3830	PSXE139013	McGhee Tyson Airport	TN	KC-135 Maintenance Shops	52276F	216-712	17,500	1,000	Updated PA based on new cost estimate	
Guard	21	3830	KELL189014	Kelly Field Annex	TX	F-16 Mission Training Center	54332F	171-212	6,500			New



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Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount (\$000)	Change from FY18PB	Explanation of Changes	Footprint
Guard	21	3830	PAYZ210005	Unspecified	VL	Planning and Design	52276F	961-000	15,200			
Guard	21	3830	PAYZ210006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	30,821			
Guard	22	3830	PAYZ220005	Unspecified	VL	Planning and Design	52276F	961-000	18,700			
Guard	22	3830	PAYZ220006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	28,602			
Guard	23	3830	PAYZ230005	Unspecified	VL	Planning and Design	52276F	961-000	12,600			
Guard	23	3830	PAYZ230006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	19,301			
Guard	24	3830	PAYZ240005	Unspecified	VL	Planning and Design	52276F	961-000	12,000			
Guard	24	3830	PAYZ240006	Unspecified	VL	Unspecified Minor Construction	52276F	962-000	25,645			
Guard	21	3830	AAAA189001	VARIOUS LOCATIONS	VS	Space Control Facility	C5116F	141-454	20,000	12,000	Updated cost estimate based on estimated area cost factor	New
Guard	22	3830	ETRD169847	Camp Murray ANG Station	WA	Air Support Operations Complex	52276F	141-753	27,000	3,000	Updated PA based on new cost estimate	

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Component	FY	APPN	Project Number	Installation	State	Project Title	Program Element Code	Facility Category Code	Budget Amount (\$000)	Change from FY18PB	Explanation of Changes	Footprint
Guard	21	3830	XGFG189002	Dane County Regional-Truax Field	WI	F-35 Fuel Cell & Wash Rack	52635F	211-179	12,200		New Mission for F-35	New
Guard	21	3830	HTUV189001	General Mitchell International Airport	WI	Indoor Small Arms Range	52276F	179-475	7,100			
Guard	22	3830	DPEZ019000	Cheyenne Regional Airport	WY	Combined Vehicle Maintenance & ASE Complex	52276F	214-425	13,400	5,400	Updated PA based on new scope/cost estimate	