



# ***FY2021 Air Force Targeted UPL***

## ***\$3.2B***

---

## ***Advancing the Future Force We Need (\$1,876M)***

### **1. Advanced Technologies (\$115M)**

- Skyborg Prototyping: \$25M (Prototypes an autonomous unmanned combat air vehicle)
- Golden Horde Prototyping: \$35M (Collaborative SBD-I with autonomous optimization)
- Emerging Technology Concept Operational Prototype: \$55M (Advances critical technology readiness)

### **2. Advanced Weapons Systems (\$228M)**

- GPS Military- Code Receiver: \$52M (Enables agile and robust Positioning, Navigation and Timing capability)
- Robust Offensive Cyber Operations: \$176M (Fields cutting-edge offensive cyber effects)

### **3. Aircraft Procurement (\$1,343M)**

- F-35: \$1,172M (Procures an additional 12 a/c with initial spares in FY21)
- F-35: \$171M (Procures long lead support items)

### **4. Future Ranges (\$190M)**

- Range Upgrades: \$116M (Upgrades Operational Training Infrastructure and Software)
- Cyber Range and Training: \$74M (Increases capacity of the Cyber Formal Training Unit)

## ***Infrastructure (\$1,325M) – PRV 1.85%***

- MILCON (\$589M), Facility Sustainment, Restoration and Modernization (\$736M)

U.S. AIR FORCE FY2021 UNFUNDED PRIORITY LIST BUDGET LEVEL DETAILS

REQUIREMENT				BUDGET LEVEL DETAIL							
Priority	Category	Title	Description	Appn (4-Digit)	SAG (O&M)	PE	BPAC (RTDE)	WSC (Procurement)	P-1 Line # (Procurement)	R-1 Line # (RDT&E)	Unfunded Amount (\$M)
1	Advanced Technologies	Skyborg / Golden Horde/ Emerging Technology Concept (ETC) Prototyping	<p>The first iteration of Skyborg will integrate artificial intelligence into autonomous unmanned air vehicles to enable future manned-unmanned teaming. This request expands the rapid transition capability to the INDOPACOM Area of Responsibility, with leave-behind assets and procurement of follow-on program of record.</p> <p>Golden Horde is designed to incorporate to the Air Force's three most urgent technologies: precision guided weapons, artificial intelligence, and communications networking. Funds an operational prototype of a collaborative Small Diameter Bomb (SDB)-I that autonomously optimizes coordinated attacks on emitting or Global Positioning Satellite (GPS) targets within Operators Rules of Engagement.</p> <p>ETC efforts focused on advancing critical technology readiness, design work on prototype demonstrator and securing space launch support. Additional details available via classified means.</p>	3600							\$ 115
				3600		64858F	645351			R-1 Line#: 56	\$ 115
2	Advanced Weapon Systems	Accelerate GPS M-Code Receiver Development / Robust Offensive Cyber Operations	<p>The Military-Code (M-Code) Receiver provides resilient positioning, navigation, and timing capability by accelerating Embedded GPS Inertial Navigation System -Modernization (EGI-M) ,which replaces current GPS receivers, to address obsolescence issues and reduces 260+ configurations to ~16 while adding M-Code and Automatic Dependent Surveillance-Broadcast (ABS-D) capability for DoD platforms, and Weapons M-Code Receiver Development.</p> <p>Offensive Cyberspace Operations (OCO) program rapidly develops operations-ready cyberspace superiority capabilities. Funding supports rapid development, integration, and capability fielding of cutting-edge offensive cyber effects to equip the USAF Cyber Mission Forces. Additional details available via classified means.</p>								\$ 228
				3600		64201F	651030			R-1 Line#: 49	\$ 30
				3600		64201F	641030			R-1 Line#: 49	\$ 22
				3600		28087F	674540			R-1 Line#: 221	\$ 127
				3400	011C	28087F					\$ 1
				3080		28087F		834320	P-1 Line#: 34		\$ 49
3	Aircraft Procurement	F-35A	<p>Procures 12 F-35As Flyaway costs(\$80.3M per), and procures spares for additional 12 aircraft in FY21.</p> <p>Procures F-35A Advanced Procurement Long Lead and Economic Order Quantity in support of an additional 12 aircraft in FY22.</p>	3010							\$ 1,343
				3010		10F035		ATA000A	P-1 Line#: 1	R-1 Line#: 1	\$ 1,172
				3010		10F035		ATA000C	P-1 Line#: 2	R-1 Line#: 2	\$ 171
4	Future Ranges	Advanced Radar Threat System Version 4 (ARTSV4) / Nellis & Hill Range Operational Training Infrastructure / Cyber Formal Training Unit (FTU) and Ranges	<p>The ARTS-V4 is the foundation needed to ensure a complex layered defense is replicated to match near-peer threats. This funding accelerates the rapid prototyping and procurement of ARTS V4 to support 5th Generation training and readiness.</p> <p>Increases investment in the sustainment and contract support required to maintain and keep relevant the Nellis AFB and Hill AFB ranges, to enable test, research and development activities, provide live battlespace for tactics development and electronic combat, and support various partner-nation readiness training and testing for all major (flying) weapons systems.</p> <p>This funding increases the capacity of USAF cyber training enterprise with manpower &amp; operational training infrastructure (OTI) as the current pipeline cannot meet the demand for trained operators. Currently the FTUs through-put is 1,400 Airmen, this funding will increase that to 3,500. Additionally, this effort closes the capability gap to emulate peer adversaries in a simulated environment.</p>								\$ 190
				3600		64735F	652286			R-1 Line#: 95	\$ 59
				3500		35251F					\$ 2
				3400	011D	27428F					\$ 57
				3400	032A	84762F					\$ 48
				3400	012D	35251F					\$ 6
				3400	012D	28088F					\$ 1
				3080		84762F					\$ 17
6	Infrastructure	Facility, Sustainment, Restoration and Modernization (FSRM)	<p>Increases to our facility maintenance and repair investment to 1.85% Plant Replacement Value (PRV), accelerating the ramp to meet the Department of the Air Force Infrastructure Investment Strategy goal of 2% PRV.</p>								\$ 736
				3840	011R	52276F					\$ 49
				3840	011R	52278F					\$ 7
				3740	011R	52576F					\$ 18
				3740	011R	52578F					\$ 3
				3400	011R	22176F					\$ 571
				3400	011R	22178F					\$ 88
<b>Total</b>											<b>\$ 3,348</b>

**U.S. AIR FORCE FY2021 UNFUNDED PRIORITY LIST BUDGET LEVEL DETAILS - Military Construction**

Priority	Component	Project #	Base	State	Title	Amount (\$M)	New(Y) or Existing MILCON (C)	Appn (4-Digit)	Description	Percent of P&D Completed	Estimated Award Date
1	Active	FXBM1081508	Ellsworth	SD	B-21 2-Bay LO Restoration Facility	96.0	Y	3300	High-bay maintenance hangar	Awarded Dec 2019; currently 15%, 35% anticipated Apr 2020	3rd Quarter FY21
2	Active	KRSM1071882	Hill	UT	Ground Base Strategic Deterrent (GBSD) Organic Software Sustainment Center	132.0	Y	3300	Multi-story secure software integration facility	Anticipate award Feb 2020, currently 3%	2nd Quarter FY21
3	Reserve	DDPM414415	Fort Worth JRB	TX	F-35 Squadron Operations/Aircraft Maintenance Unit	25.0	Y	3730	Construct consolidated Squadron Operations and Aircraft Maintenance Unit facility to beddown F-35.	35% complete; anticipate 100% by Sept 2020	1st Quarter FY21
4	Active	Multiple	Unspecified Worldwide	ZU	Cost to Complete	166.5	NA	3300	Additional funds are required to award 13 projects authorized from FY16-19 which have high bids.	N/A	Will Vary in FY21
5	Guard	KKGA169022	Hector International Airport	ND	Consolidated Remote Piloted Aircraft (RPA) Operations Facility	17.5	C	3830	The 119th Wing requires an adequately sized and configured facility to support PAR operations and training. Includes facility space for Remote Piloted Aircraft (RPA) Support Operations Center (SOC) to include RPA administrative, operations space and Ground Control Stations (GCS). RPA operations requires special construction to meet the necessary classification certification.	50% complete	4th Quarter FY21
6	Active	USAFA2500001	USAFA	CO	Cadet Preparatory School Dormitory	49.0	C	3300	Construct a new 126-room, multi-story dormitory. Includes administration support and training manager's areas, laundries, storage, mechanical, communication and utility connections.	Awarded Feb 2019; currently 35%	3rd Quarter FY21
7	Active	AJXF176000	JB Andrews	MD	Crash Rescue Station #1	26.0	C	3300	Construct 3,365 SM Crash Rescue Station to accommodate 14 Aircraft Rescue Fire Fighting apparatus, provide emergency back-up power and adequate personnel space to support existing airframes/mission footprint.	Awarded Jan 2020; currently 5%, 35% anticipated Jun 2020	3rd Quarter FY21
8	Guard	FAKZ169003	Montgomery Regional Airport (ANG) Base	AL	Base Supply Complex	10.2	C	3830	The base requires correctly sized and properly configured aircraft maintenance facilities to support repair and maintenance of 21 F-35 aircraft. The 187th Fighter Wing has been selected as a preferred location for the beddown of the F-35 and requires adequate facilities to support the new mission.	50% complete	4th Quarter FY21
9	Active	FSPM163504	Edwards	CA	Flight Test Engineering Laboratory Complex	40.0	C	3300	Construct a two story laboratory, engineering and office complex with reinforced concrete slab foundation, wall panels, standing seam metal roof, thermal energy storage system, and fire protection.	Awarded Nov 2019; currently 15%, 35% anticipated by Mar 2020	2nd Quarter FY21
10	Guard	ETRD169847	Camp Murray, ANG Station	WA	Air Support Operations Complex	27.0	C	3830	The facility shall consist of shared space and resources for administrative functions, communications training, maintenance shops, maintenance bays, simulator training spaces, open storage sensitive controlled information space, fitness evaluation, and equipment storage.	70% complete	4th Quarter FY21
						Active MILCON UPL	509.5				
						Reserve MILCON UPL	25.0				
						Guard MILCON UPL	54.7				