



# UNITED STATES AIR FORCE

## FISCAL YEAR 2019 BUDGET OVERVIEW

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# **UNITED STATES AIR FORCE**

## **FISCAL YEAR 2019 BUDGET OVERVIEW**

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# TOTAL FORCE (COMPONENTS)

American Airmen have long been breaking barriers in air and space, resulting in today's Global Vigilance, Global Reach, and Global Power. As a service, we are known for our airframes, our history of innovation, and our groundbreaking work in air and space. However, our most important asset is the people who raise their hands and volunteer to serve in the profession of arms. The U.S. Air Force is a true Total Force that effectively leverages the unique capabilities of officer, enlisted, and civilian Airmen across Active, Guard, Reserve, and Auxiliary components.

## ACTIVE DUTY AIR FORCE



The Active component military end strength comprises approximately 65 percent of the Air Force's Total Force. The Active Air Force maintains aircraft and bases across the United States and overseas, while supporting all five core missions: Air, Space and Cyber Superiority; Global Intelligence, Surveillance and Reconnaissance (ISR); Rapid Global Mobility; Global Strike; and Command and Control (C2). The Active Air Force is the only full time component—the other components can be called to full time when “activated” to support operational requirements.

## AIR NATIONAL GUARD



The Air National Guard's (ANG) federal mission is to maintain well-trained, well-equipped units available for prompt mobilization during war and provide assistance during national emergencies. During peacetime, the combat-ready and support units are assigned to most Air Force major commands to carry out missions compatible with training, mobilization readiness, humanitarian and contingency operations such as Operation Enduring Freedom in Afghanistan. The Air National Guard provides almost half of the Air Force's tactical airlift support, combat communications functions, aeromedical evacuations and aerial refueling. In addition, the Air National Guard has total responsibility for air defense of the entire United States.

## AIR FORCE RESERVE



The Air Force Reserve (AFR) is a combat-ready force. The AFR is comprised of highly-experienced, professional citizen Reservists who provide strategic depth and operational capacity for every Major and Combatant Command. Operating in various locations around the world, the Air Force Reserve has evolved from a “stand by” force for emergencies into a Major Command (MAJCOM) of the Active Duty Air Force. The Air Force Reserve currently performs about 20 percent of the work of the Air Force, including traditional flying missions and other more specialized missions, such as Weather Reconnaissance (Hurricane Hunters), Modular Aerial Fire Fighting (MAFFs) and Personnel Recovery (Pararescuemen).

## OVERVIEW

In accordance with the National Defense Strategy, this budget prioritizes long-term competition with China and Russia. We build on the progress made in 2018 to restore the readiness of the force, increase lethality, and cost-effectively modernize. Highlights:

**READINESS:** Restoring readiness to win any fight, any time remains a primary objective. This budget funds approximately 1.5 million flying hours at a cost of \$8.7 billion and 54,443 preferred munitions to reverse previous declining inventories at a cost of \$1.8 billion. This budget also funds training ranges, simulators, instructors, and key infrastructure required to improve the quality of our training in alignment with the National Defense Strategy prioritization of peer competition.

**PEOPLE:** This budget represents an increase in the size of the Air Force by 4,700 total military force personnel while we simultaneously review existing manning across the active duty, guard, and reserve components. In addition, this budget submission funds important support to Airmen and families with a 2.6% military pay raise, increased housing and subsistence allowances, and family support programs.

**NUCLEAR DETERRENCE:** Our budget proposal supports the Defense Department's principal priority to maintain a safe, secure, and effective nuclear deterrent. We propose to improve our nuclear command, control, and communication systems, modernize our bomber fleet to include development of B-52H replacement engines, continue development of the Long Range Stand Off Missile and ICBM modernization with Ground-Based Strategic Deterrent (GBSD) program.



**MODERNIZATION:** This budget funds our priority modernization initiatives with the purchase of 48 F-35A fighters, 15 KC-46A tankers, and continued development of the B-21 bomber. This year, we will decide the new T-X advanced trainer aircraft and the replacement for the UH-1N helicopter. Critical to mission success is continued investment in our classified portfolio, which will be briefed in a closed session.



**SPACE SUPERIORITY:** This year's budget accelerates our efforts to deter, defend, and prevail against anyone who seeks to deny our ability to freely operate in space. We will build more jam-resistant GPS satellites, improve missile warning, improve space situational awareness, and increase our ability to defend our Nation's most vital assets in orbit.

**MULTI-DOMAIN COMMAND AND CONTROL:** This budget proposes to change the way we execute battlefield management command and control in the multi-domain environment. We propose to modernize seven E-3 Airborne Warning Command and Control aircraft (AWACS) and keep the current E-8C JSTARS operational through the mid-2020s, as we develop and transition to an advanced battle management system.

**AIR SUPERIORITY:** Central to lethality is our ability to gain and maintain air superiority when and where needed against potential adversaries in 2030 and beyond. Over the next five years, we will develop an integrated family of systems that can establish and maintain air superiority in a contested environment. This will be a multi-domain effort with a renewed emphasis on electronic warfare and control of the electromagnetic spectrum.

**LIGHT ATTACK:** Retaining irregular warfare as a core competency at a lower cost and strengthening our alliances are key elements of our National Defense Strategy. We are developing concepts of operations and further defining requirements.

**SCIENCE AND TECHNOLOGY:** The Air Force launched a review of our science and technology strategy that will be complete later this year. This budget increases emphasis on basic and applied research to drive long-term innovation and dominance in air and space power.

## BUDGET HIGHLIGHTS OVERVIEW

The Air Force budget request for FY 2019 is approximately \$156.3 billion dollars, a 6.6% overall increase from the FY 2018 request. The details of the budget will highlight the investments necessary to confront the reemergence of great power competition in a more dangerous international security environment than we have seen in generations. This budget moves us forward to outpace the efforts of our competitors and aligns with the National Security Strategy, the National Defense Strategy, and Air Force priorities. Key areas addressed by this budget include readiness, people, nuclear deterrence, modernization, space superiority, multi-domain command and control, air superiority, light attack and science and technology. Future wars will be won by those who observe, orient, decide and act faster than adversaries in an integrated way and this budget request positions the Air Force to be that force.

Our FY 2019 budget shows modest growth in O&M. We invest in upgrades to the Intelligence, Surveillance and Reconnaissance (ISR) fleet in order to mitigate capability gaps in transmitting ISR data to decision makers---a key element to improving lethality. To free Air Force pilots to perform other missions, we expanded our Adversary Air contract at Nellis Air Force Base to provide additional live training engagements. The baseline budget increases funding for our two largest readiness accounts, by funding nearly 1.5 million flying hours and resourcing our Weapon System Sustainment (WSS) requirements at a manageable level of risk. Additionally, we enhance the network of Global Command and Control systems that enable surveillance, early warning of weather and airborne events, worldwide cyber connectivity with warfighter systems, and air traffic control.

Our FY 2019 PB request for MILPERS supports increased end strength to further reduce critical gaps in our force. This request grows Total Force end-strength to just over 506K military members---a total military force increase of 4,700 over 2018. This request also provides funding to recruit, train and develop resilient and competent Airmen, focused on leading multi-domain operations as part of the Joint and Combined Force. In particular, this budget targets shortfalls in ISR, Remotely Piloted Aircraft and cyber career fields. Additionally, in areas where we have previously closed the manning gap the focus shifts to closing the experience gap.

Innovation continues to be an Air Force imperative, as we are faced with an eroding technology advantage in an international environment of great power competition. The FY 2019 RDT&E budget invests heavily in innovative technologies, funds the modernization of our nuclear force, transforms major space capabilities to better perform in a contested environment and continues investment in the Air Superiority family of systems. Funding also focuses on game-changing technologies, such as hypersonics, directed energy, unmanned autonomous artificial intelligence and machine learning systems, and nanotechnology. Additionally, the FY 2019 budget transitions our space investment by accelerating our efforts to move to a defensible space posture which is critical as our adversaries continue to build capabilities to deny our use of space.

Our FY 2019 Procurement accounts continue stable growth from FY 2018 to FY 2019 as we continue procurement of the F-35A and KC-46A, begin procurement of the Combat Rescue Helicopter, increase preferred munitions, and begin the pivot to a defensible, survivable space posture. Within our munitions account we have included funding through a combination of base and OCO to maximize current industry capacity.

In the MILCON FY 2019 request, the Air Force continues to focus on new weapon system beddowns, strengthening the nuclear enterprise, and modernizing our research, development and test infrastructure. The budget supports Combatant Commanders’ highest construction priorities, improves the posture of the forces in Europe, and enhances Indo-Pacific Resiliency.

Our FY 2019 Overseas Contingency Operations budget prioritizes on-going operations in Iraq, Afghanistan and Syria and expands efforts to deter Russian aggression through the European Deterrence Initiative continues global counterterrorism operations and builds military readiness.

**TABLE 1. Air Force Budget Highlights Summary**

FY19 Air Force Budget Request Facts				
Total Air Force (\$M) <sup>1</sup>			FY18	FY19 PB
Total Base Budget Request			146,545	156,266
Operation and Maintenance (O&M) <sup>2</sup>			49,155	49,910
Military Personnel (MILPERS)			30,676	32,394
Research Development Test & Evaluation (RDT&E)			25,608	30,412
Procurement			24,768	25,700
Military Construction (MILCON)			1,964	1,778
Military Family Housing			403	396
Base Realignment and Closure (BRAC)			54	53
Overseas Contingency Operations (OCO)*			13,917	15,623
<b>General Facts</b>				
			FY18	FY19 PB
Total Aircraft Inventory <sup>3</sup>			5,373	5,426
Flying Hours <sup>4</sup>			1,422,959	1,454,383
<b>Personnel Facts</b>				
			FY18	FY19 PB
Authorized Manpower			645,004	648,779
<b>Military</b>			<b>501,500</b>	<b>506,200</b>
Active			325,100	329,100
Guard			106,600	107,100
Reserve			69,800	70,000
<b>Civilian</b> <sup>5</sup>			<b>143,504</b>	<b>142,579</b>
<b>Major Procurement Quantities</b> <sup>6</sup>				
			FY18	FY19 PB
<b>Aircraft</b>	FY18	FY19 PB	FY18	FY19 PB
<b>Weapons</b>				
F-35A	46	48 JDAM	27,320	36,000
KC-46A	15	15 AGM-114 Hellfire	3,629	4,338
MC-130J	5	6 AIM-9X Sidewinder	310	256
MQ-9A	16	29 AIM-120D AMRAAM	205	222
HC-130J	2	2 AGM-158 JASSM-ER	360	360
<b>Space</b>	Small Diameter Bomb I & II		7,312	7,336
EELV	3	5		

Numbers may not add due to rounding

<sup>1</sup> Does not include Pass Through

<sup>2</sup> Includes \$4.8B of OCO included for Base WSS requirements; not included in \$15.6B OCO

<sup>3</sup> Includes Total Force Total Aircraft Inventory (TAI) Only - Excl. ALCM, ICBM, LRE, Aerial Target & Ground Control Stations; comprehensive aircraft list in Appendix

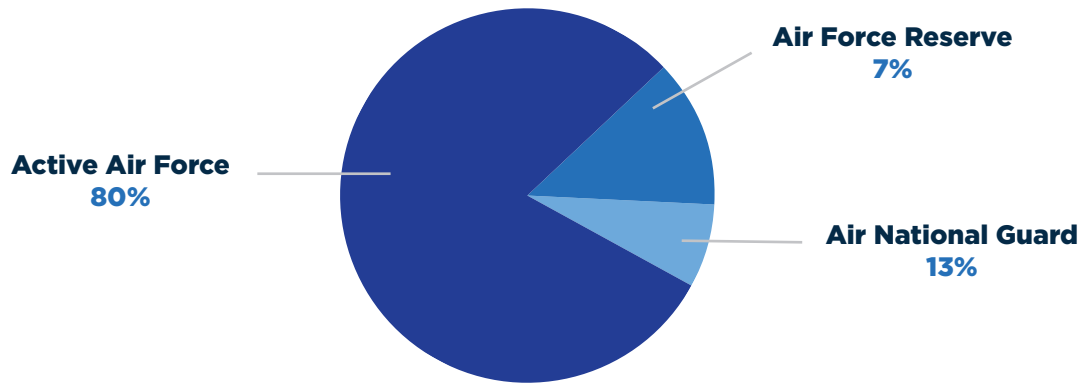
<sup>4</sup> Air Force Total Force O&M funded flying hours only

<sup>5</sup> Air Force civilian budget end-strength (Total FY18/19 civilian end-strength is 183,752/184,257)

<sup>6</sup> Includes Base and OCO quantities

# OPERATION AND MAINTENANCE (O&M)

Figure 1 depicts the FY 2019 Baseline TOA shown in Table 2 below and displays the relative size of each subsection of this appropriation.



**FIGURE 1. O&M - Total Force FY 2019 Baseline Budget Request**

The FY 2019 O&M budget request funds the day-to-day expenses of the Air Force to support current operational requirements. All Air Force core functions are supported by this appropriation. O&M resources directly support essential combat enablers such as: flying, space and cyberspace operations, ISR, logistics, nuclear deterrence, search and rescue, and special operations activities. O&M funds are used to operate, sustain, and maintain aircraft, space, and related weapons systems; ready, train and develop Airmen; provide pay and benefits for civilian personnel; operate advanced communications, C2 systems; purchase critical supplies, equipment, and fuel; airfield, runway, and base facility maintenance, and improve the working and living conditions for Air Force personnel. Table 2 displays O&M across the Total Force by component.

**TABLE 2. O&M - Air Force Total Force TOA by Component**

Operation and Maintenance, Air Force Total Force TOA (\$M)	FY18 PB	FY19 PB
Active Air Force *	38,948	40,222
Air Force Reserve	3,268	3,260
Air National Guard	6,940	6,428
<b>Total</b>	<b>49,155</b>	<b>49,910</b>

Numbers may not add due to rounding  
 \* Active includes Environmental & WCF

The Air Force O&M budget request of \$49.9B for FY 2019 builds on the progress made in FY 2018 to accelerate the readiness of the force, increase lethality, and cost-effectively modernize.

Restoring the readiness of the force to win any fight, any place, any time remains a primary objective. The budget funds recruiting and training efforts aimed at addressing critical skill shortfalls, such as Intelligence, Surveillance and Reconnaissance (ISR), Remotely Piloted Aircraft, and cyber career fields. This budget also funds training ranges, simulators, instructors, and key infrastructure required to improve the quality of our training in alignment with the National Defense Strategy prioritization of peer competition.

A fundamental element to increasing lethality is Air Superiority, which is our ability to gain and maintain control of the airspace when and where needed against major challengers in 2030 and beyond. Toward this effort we have programmed funding to continue the beddown of the F-35A at Burlington ANGB, Vermont, Eielson AFB, Alaska, and RAF Lakenheath, United Kingdom; increased funding for training exercises, expanded the Adversary Air (ADAIR) contract to provide additional live training engagements, and provided additional contract maintenance for 5th generation training simulators.

This budget allocates funding to replace outdated electromagnetic interference detection systems increasing support for the defensive space mission; it grows the fleet of counter communications system contracts increasing support for the offensive space mission; it expands the Space Test and Training Range which allows users to test and train in a safe environment against space as a hostile domain and funds equipment and support for Cyber Mission Forces to mitigate cyber-attacks on the nations networks.



**Key highlights:**

- » Funds peacetime flying hours to executable levels; 1.2M hours / \$6.4B
- » WSS funded to a manageable level of risk – sustains readiness recovery plan
- » Upgrades ISR systems supporting tactical team operations (\$171.3M)
- » Funds add'l 1,000 ROTC scholarships for STEM programs and diversity (\$17.8M)
- » Funds Cyber Mission Forces - 39 offensive and defensive Cyber teams
- » Funds Chief Data Office for AF enterprise operations info requirements
- » Funds facilities sustainment at 80% of the OSD modeled requirement
- » Expands ADAIR and combat training ranges to 5th generation configuration (\$205.0M)
- » Expands Civilian Intern program for STEM career fields

**TABLE 3. O&M – Air Force Total Force Baseline TOA**

Operation and Maintenance, Air Force Total Force TOA (\$M)	FY18 PB	FY19 PB
Flying Operations	18,153	18,584
Civilian Pay	10,926	10,840
Space/Other Combat Forces	7,194	8,469
Installation Support and FSRM	7,019	6,621
Logistics Ops and Air Force Wide Support	3,029	2,806
Training	1,380	1,382
Mobility Forces	1,454	1,208
<b>Total</b>	<b>49,155</b>	<b>49,910</b>

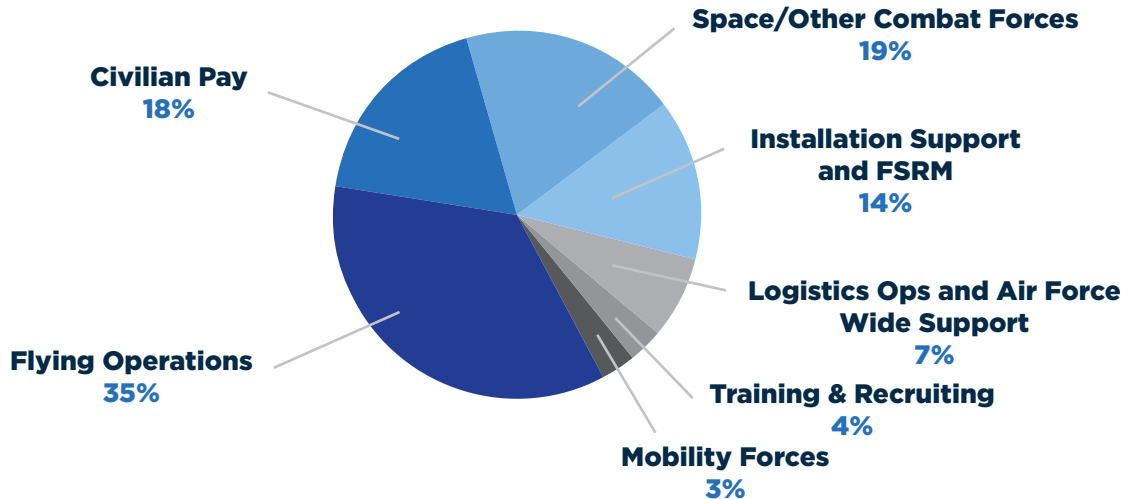
Numbers may not add due to rounding  
Includes \$4.8B Base to OCO

The tables that follow display the funding request in different categories relevant to Active, Air National Guard and Air Force Reserve components.



# O&M – ACTIVE AIR FORCE

Figure 2 depicts the FY 2019 Baseline TOA shown in Table 4 and displays the relative size of each subsection of this appropriation.



**FIGURE 2. O&M – Active Air Force FY 2019 Baseline Budget Request**

The FY 2019 Active Air Force budget supports production of 989 new pilots and funds 883,748 flying hours while sustaining a fleet of 4,051 aircraft. O&M resources provide funding for essential combat enablers such as: intelligence, logistics, weather, air traffic control, search and rescue, airfield, runway and base facility maintenance, civilian pay, and improvements to working and living environments for Air Force personnel. Land-based nuclear and space forces, electronic warfare, irregular warfare and ISR missions are also supported by O&M funding.

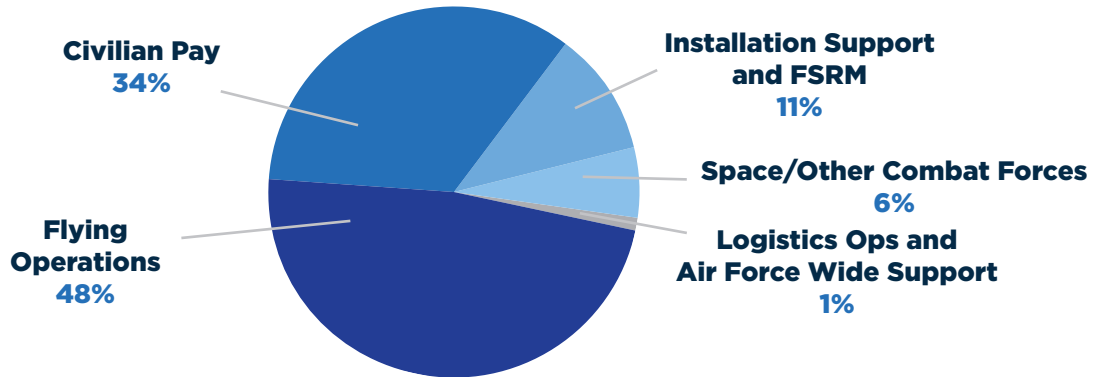
**TABLE 4. O&M – Active Air Force TOA**

Operation and Maintenance, Active Air Force TOA (\$M)	FY18 PB	FY19 PB
Flying Operations	13,446	14,160
Civilian Pay	7,276	7,304
Space/Other Combat Forces	6,455	7,804
Installation Support and FSRM	6,036	5,624
Logistics Ops and Air Force Wide Support	2,901	2,740
Training	1,380	1,382
Mobility Forces	1,454	1,208
<b>Total</b>	<b>38,948</b>	<b>40,222</b>

Numbers may not add due to rounding  
Includes \$4.8B Base to OCO

# O&M – AIR NATIONAL GUARD

Figure 3 depicts the FY 2019 Baseline TOA shown in Table 5 and displays the relative size of each subsection of this appropriation.



**FIGURE 3. O&M – Air National Guard FY 2019 Baseline Budget Request**

The ANG O&M appropriation funds the flying and maintenance of ANG aircraft and the operation of 90 wings and 163 new pilots. Our FY 2019 budget request funds 193,435 flying hours, maintains 1,044 aircraft and supports mission training of 107,100 ANG personnel.

**TABLE 5. O&M – Air National Guard TOA**

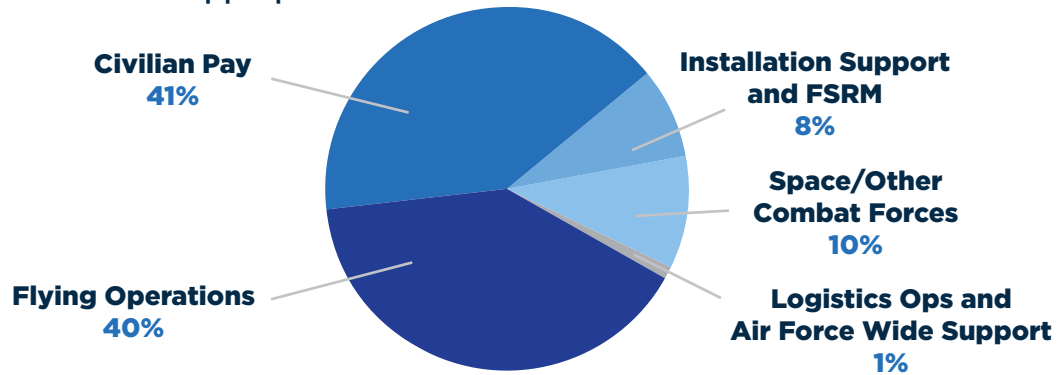
O&M, Air National Guard TOA (\$M)	FY18 PB	FY19 PB
Civilian Pay	2,319	2,192
Flying Operations	3,374	3,109
Space/Other Combat Forces	422	355
Logistics Ops and Air Force Wide Support	98	37
Installation Support and FSRM	727	735
<b>Total</b>	<b>6,940</b>	<b>6,428</b>

Numbers may not add due to rounding



# O&M – AIR FORCE RESERVE

Figure 4 depicts the FY 2019 Baseline TOA shown in Table 6 and displays the relative size of each subsection of this appropriation.



**FIGURE 4. O&M – Air Force Reserve FY 2019 Baseline Budget Request**

The AFR O&M appropriation provides funding to train units for immediate mobilization, and administrative support. Our budget request provides for the operation and training of 37 wings, 94 new pilots, 104,744 flying hours, maintains 332 aircraft, funds air reserve technicians (military), civilian technicians, and provides mission training for 70,000 Reserve personnel.

**TABLE 6. O&M – Air Force Reserve TOA**

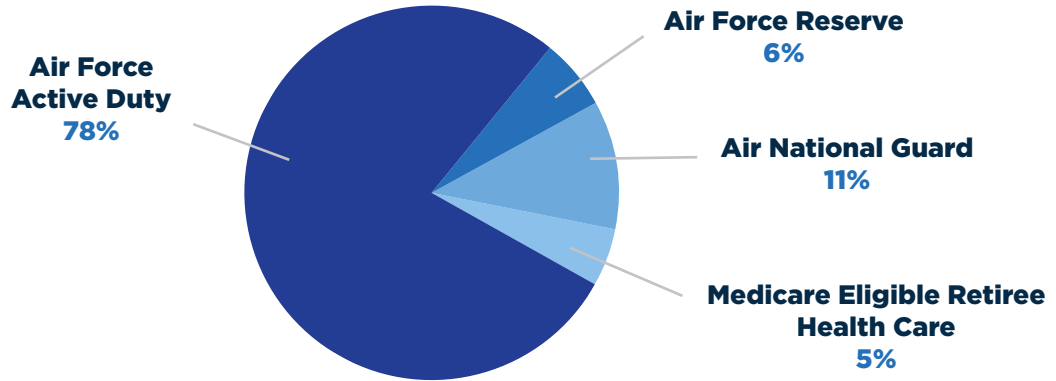
O&M, Air Force Reserve TOA (\$M)	FY18 PB	FY19 PB
Flying Operations	1,334	1,315
Civilian Pay	1,331	1,344
Installation Support and FSRM	256	261
Space/Other Combat Forces	316	311
Logistics Ops and Air Force Wide Support	31	29
<b>Total</b>	<b>3,268</b>	<b>3,260</b>

Numbers may not add due to rounding



# MILITARY PERSONNEL (MILPERS)

Figure 5 depicts the FY 2019 Baseline Total Obligation Authority (TOA) request shown in Table 7 below subdivided by component.



**FIGURE 5. MILPERS - Total Force FY 2019 Baseline Budget Request**

The FY 2019 budget request for Military Personnel supports the Air Force’s ability to accomplish the Air Force priorities, allowing the Air Force to maintain the world’s best trained force. It leverages the Active, Guard and Reserve Components to preserve the Total Force mix necessary to engage in operations around the world. The Air Force takes a balanced approach to maintain core capabilities and is committed to providing competitive military compensation to retain the right amount of highly skilled Airmen required to meet current and future needs of the Nation. Appropriation details and end-strength changes are provided below:

- » Total Force military end-strength of 506,200; increased by 4,700 from FY 2018
- » Active component end-strength of 329,100; increased by 4,000 from FY 2018
- » ANG end-strength of 107,100; increased by 500 from FY 2018
- » AFR component end strength of 70,000; increased by 200 from FY 2018
- » Provides across-the-board 2019 calendar year increases of 2.6 percent for military pay, 3.2 percent in Basic Allowance for Housing, and 3.4 percent for Basic Allowance for Subsistence

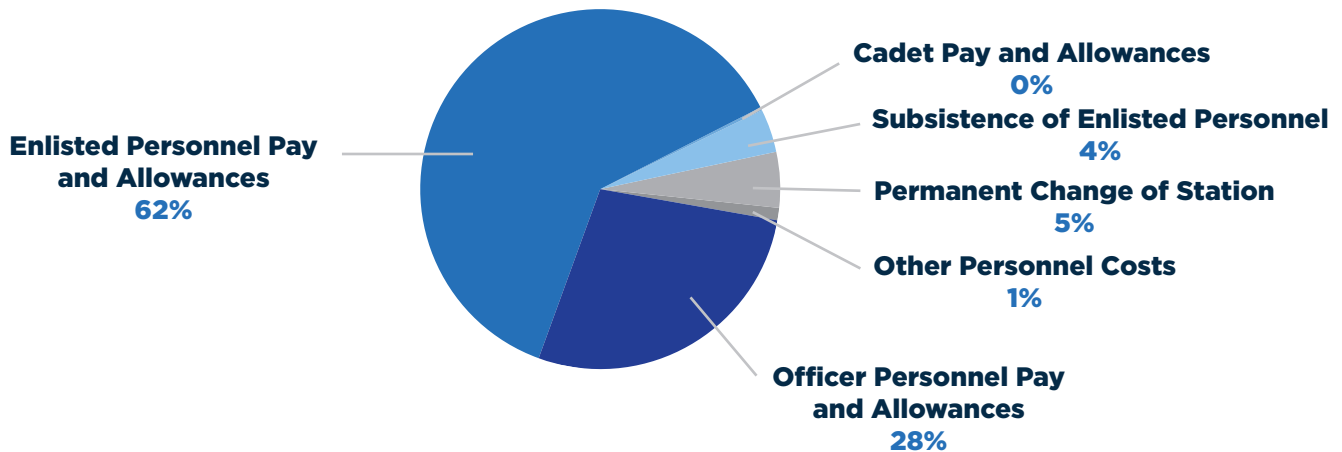
**TABLE 7. MILPERS – Air Force Total Force TOA**

MILPERS, Air Force Total Force TOA (\$M)	FY18 PB	FY19 PB
Air Force Active Duty	23,852	25,239
Air Force Reserve	1,803	1,872
Air National Guard	3,401	3,713
Medicare Eligible Retiree Health Care	1,620	1,570
<b>Total</b>	<b>30,676</b>	<b>32,394</b>

Numbers may not add due to rounding

# MILITARY PERSONNEL – ACTIVE AIR FORCE

Figure 6 depicts the FY 2019 Baseline TOA shown in Table 8 below subdivided into major activities.



**FIGURE 6. MILPERS – Active Air Force FY 2019 Baseline Budget Request**

Active Air Force MILPERS increases the overall size of the all-volunteer force by 4,000 Airmen, from 325,100 authorized in the FY 2018 National Defense Authorization Act to 329,100 end-strength requested in the FY 2019 President’s Budget. To continue readiness gains, the Air Force must grow our end-strength to meet current and increasing global requirements. We continue to focus on addressing gaps in critical career fields to include Intelligence, Surveillance and Reconnaissance (ISR), Remotely Piloted Aircraft and cyber career fields. The FY 2019 budget increases training capacity to “right-size” the pipeline with a focus on critical skills production as identified in the National Defense Strategy to expand readiness improvements.

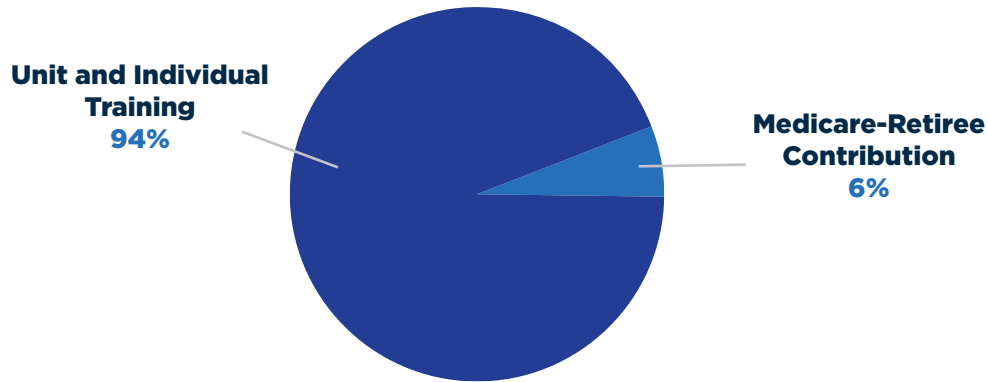
**TABLE 8. MILPERS – Active Air Force TOA**

MILPERS, Air Force TOA (\$M)	FY18 PB	FY19 PB
Officer Personnel Pay and Allowances	6,683	7,185
Enlisted Personnel Pay and Allowances	14,754	15,669
Cadet Pay and Allowances	78	79
Subsistence of Enlisted Personnel	988	1,006
Permanent Change of Station	1,256	1,201
Other Personnel Costs	93	99
<b>Subtotal</b>	<b>23,852</b>	<b>25,239</b>
Medicare-Retiree Contribution	1,241	1,204
<b>Total</b>	<b>25,093</b>	<b>26,443</b>

Numbers may not add due to rounding

# MILITARY PERSONNEL - AIR NATIONAL GUARD

Figure 7 depicts the FY 2019 Baseline TOA shown in Table 9 below subdivided into major activities.



**FIGURE 7. MILPERS - Air National Guard FY 2019 Baseline Budget Request**

The ANG Military Personnel budget request funds direct military compensation including regular pay, special pays, retired pay accruals, basic allowances for subsistence and housing, recruiting and retention incentives, and clothing allowances to provide trained units for participation in the expeditionary Air Force as well as to perform air sovereignty alert missions. The budget request includes an end-strength increase of 500 personnel. Additionally, funding supports annual 15-day tours and 48 drill periods, as well as tours of Active Duty for training of selected ANG personnel in FY 2019.

**TABLE 9. MILPERS - Air National Guard TOA**

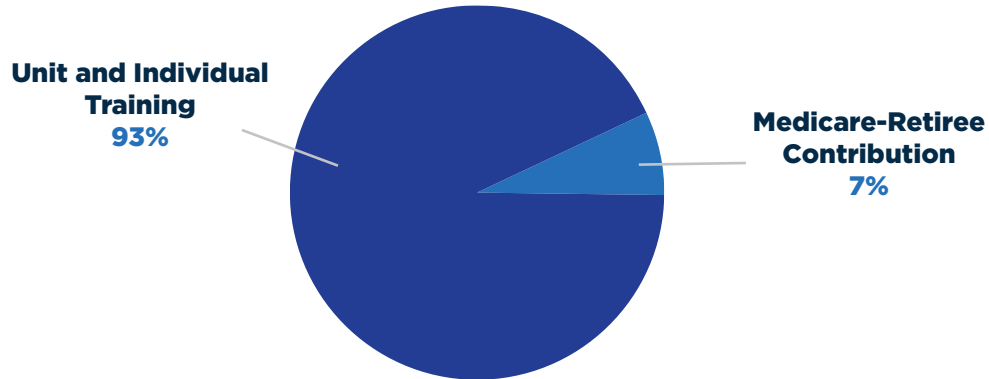
MILPERS, Air National Guard TOA (\$M)	FY18 PB	FY19 PB
Unit and Individual Training	3,401	3,713
<b>Subtotal</b>	<b>3,401</b>	<b>3,713</b>
Medicare-Retiree Contribution	242	235
<b>Total</b>	<b>3,643</b>	<b>3,948</b>

Numbers may not add due to rounding



# MILITARY PERSONNEL – AIR FORCE RESERVE

Figure 8 depicts the FY 2019 Baseline TOA shown in Table 10 below subdivided into major activities.



**FIGURE 8. MILPERS – Air Force Reserve FY 2019 Baseline Budget Request**

The AFR Military Personnel budget request funds direct military compensation including regular pay, allowances and benefits to provide trained units and individuals to augment the Active component in support of CCDR’s requirements. The Reserve component end strength increases in overall size by 200 in the FY 2019 budget request. Most of the increase addresses shortages in Cyber and ISR, and puts manpower on the continued path of readiness recovery.

**TABLE 10. MILPERS – Air Force Reserve TOA**

MILPERS, Air Force Reserve TOA (\$M)	FY18 PB	FY19 PB
Unit and Individual Training	1,803	1,872
<b>Subtotal</b>	<b>1,803</b>	<b>1,872</b>
Medicare-Retiree Contribution	137	131
<b>Total</b>	<b>1,940</b>	<b>2,003</b>

Numbers may not add due to rounding



## WORKING CAPITAL FUND

The Defense Working Capital Funds (DWCF) were established to carry out specific mission activities in a market-like financial framework, providing customers common goods and services in the most efficient way possible. Operating within the DWCF, the Air Force Working Capital Fund (AFWCF) is designed to operate on a break-even basis. AFWCF services and products are integral to readiness and sustainability of air, space, and cyberspace assets and support the ability to deploy forces around the globe.

The AFWCF conducts business in two primary areas: depot maintenance and supply management. Depots provide the equipment, skills, and repair services necessary to keep forces operating. Supply management activities procure and manage inventories of consumable and reparable spare parts required to keep all force structure elements mission ready. The Transportation Working Capital Fund (TWCF) is a part of the AFWCF budget submission. Though the Air Force is charged with cash oversight, United States Transportation Command (USTRANSCOM) has operational responsibility.

The FY 2019 AFWCF budget is structured to support the Air Force’s core functions through supply and maintenance activities that procure and manage spares, reparable, base supplies and transportation services (i.e. engines, aircraft and other reparable items). Estimates included in this submission are based on customers’ plans. Successful AFWCF operations are essential to ensure the warfighter receives the right item, at the right place, right time, and lowest cost. Our budget request reflects AFWCF logistics and business processes that are continuously improved to meet customer needs within the time and location requirements specified. Rate/price changes reflect ongoing efforts to reduce costs and accurately project inflation impacts. Highlights of the FY 2019 AFWCF budget request are reflected in Table 11.

**TABLE 11. Air Force Working Capital Fund Financial and Personnel Summary**

<b>AFWCF Total (\$M)</b>	<b>FY17</b>	<b>FY18 PB</b>	<b>FY19 PB</b>
Total Revenue	23,818	23,979	24,401
Cost of Goods Sold	23,455	24,875	24,862
Adjustments for Net Operating Result <sup>1</sup>	-13	8	-1
Net Operating Result	350	-888	-462
Accumulated Operating Result <sup>2</sup>	1,906	462	0
Capital Budget	243	304	264
Direct Appropriation <sup>3</sup>	64	67	78
<b>Rate/Price Changes</b>	<b>FY17</b>	<b>FY18 PB</b>	<b>FY19 PB</b>
Consolidated Sustainment Activity Group - Maintenance Division	-1.12%	2.61%	2.92%
Consolidated Sustainment Activity Group - Supply Division	0.96%	-8.32%	2.62%
Supply Management Activity Group - Retail	4.71%	4.78%	2.72%
<b>AFWCF, Total Personnel</b>	<b>FY17</b>	<b>FY18 PB</b>	<b>FY19 PB</b>
Civilian Work-Years/Full Time Equivalents	30,327	33,339	33,192
Military Work-Years/Full Time Equivalents	11,665	11,078	11,040

<sup>1</sup> Other Adjustments made for both USTRANSCOM and AF,

AF adjustment required for Medical-Dental Direct Appropriation

<sup>2</sup> Accumulated Operating Result - Reflects gains to be returned in FY 2018 & FY 2019

<sup>3</sup> Direct Appropriation support Medical-Dental War Reserve materials



## CASH MANAGEMENT

The Office of the Secretary of Defense’s (OSD) policy requires DWCF activities maintain positive cash balances throughout the year, and an adequate ending balance to support continuing operations into the subsequent year. In determining required cash levels, activities document average disbursements and the expected range of cash volatility, adjusted to accommodate seasonality, known changes in the business environment, and inherent risk associated with estimation error and unplanned events outside management’s control. The methodology for calculating cash requirements consists of four components: rate, range, risk mitigation, and reserves as reflected in Tables 12 and 13.

In FY 2019, AFWCF cash is projected to remain relatively flat, at \$2.3M (AFWCF and TWCF) while remaining within lower and upper operating limits. This ensures a sufficient balance necessary to support operational disbursements. Tables 12 and 13 below detail cash for both AFWCF and TWCF.

**TABLE 12. Air Force Working Capital Fund Cash Management**

AFWCF, Air Force Cash (\$M)	FY17	FY18 PB	FY19 PB
Beginning of Period (BOP) Cash Balance	1,424	1,863	1,400
Disbursements	16,566	17,285	17,528
Collections	16,687	16,756	17,412
Transfers	0	0	0
Direct Appropriations (War Reserve Material)	64	67	78
<b>End of Period (EOP) Cash Balance</b>	<b>1,863</b>	<b>1,400</b>	<b>1,362</b>
<b>Lower Limits</b>	<b>1,264</b>	<b>1,318</b>	<b>973</b>
<b>Upper Limits</b>	<b>1,887</b>	<b>1,941</b>	<b>1,595</b>

Numbers may not add due to rounding

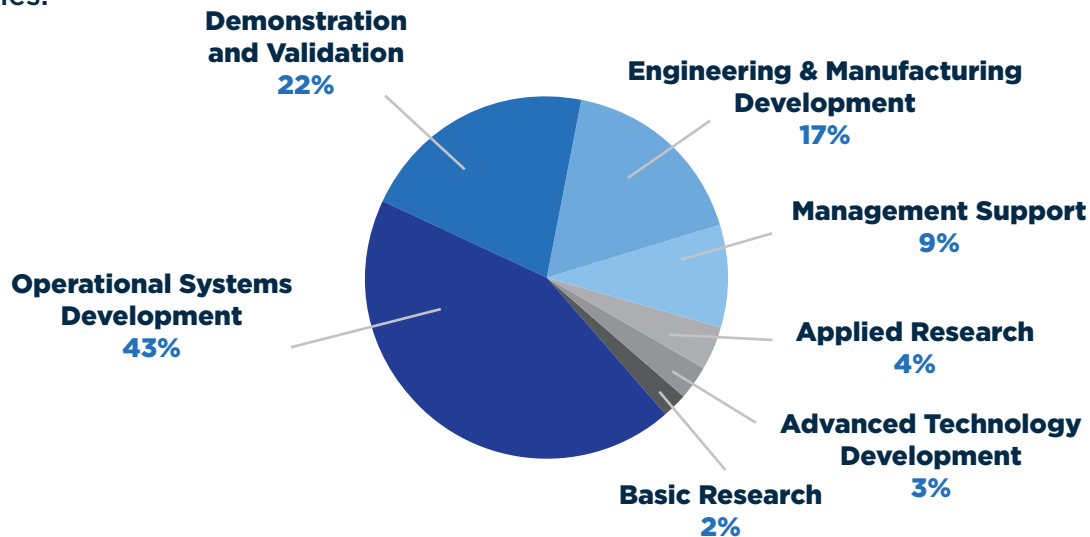
**TABLE 13. Transportation Working Capital Fund Cash Management**

TWCF Cash (\$M)	FY17	FY18 PB	FY19 PB
Beginning of Period (BOP) Cash Balance	836	856	911
Disbursements	6,965	6,663	6,668
Collections	6,985	6,717	6,687
Transfers	0	0	0
Direct Appropriations (Fallen Heroes)	0	0	0
<b>End of Period (EOP) Cash Balance</b>	<b>856</b>	<b>911</b>	<b>930</b>
<b>Lower Limits</b>	<b>749</b>	<b>751</b>	<b>761</b>
<b>Upper Limits</b>	<b>1,270</b>	<b>1,271</b>	<b>1,281</b>

Numbers may not add due to rounding

# RESEARCH DEVELOPMENT TEST AND EVALUATION (RDT&E)

Figure 9 depicts the FY 2019 Baseline TOA shown in Table 14 below subdivided into major categories.



**FIGURE 9. RDT&E FY 2019 Baseline Budget Request**

The RDT&E appropriation funds seven budget activities consisting of: basic and applied scientific research, advanced technology development and demonstration and validation, engineering and manufacturing development, operational system development, and management support. The Basic research activities involves the scientific study and experimentation related to long-term national security, while Applied research is the systematic study to understand the means to meet a recognized and specific national security requirement. The Advanced Technology and Development activities involves the development and efforts to integrate subsystems and components into system prototypes for field experiments and/or tests in a simulated environment. The Operational Systems Development (Advanced Technology and Development and Prototype Analysis) activities involves system specific efforts that help expedite technology subsystem maturity prior to integration in major and complex systems and may involve risk reduction initiatives. The Demonstration and Validation (Systematic Development and Demonstration) activities conducts engineering and manufacturing of development tasks aimed at meeting validated requirements prior to full-rate production. The Engineering and Manufacturing Development activities includes the development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year. Finally, the RDT&E Management and Support activities includes management support of RDT&E efforts and funds to sustain and/or modernize installations or operations.

**TABLE 14. RDT&E TOA**

<b>RDT&amp;E TOA (\$M)</b>	<b>FY18 PB</b>	<b>FY19 PB</b>
Operational Systems Development	11,188	13,126
Demonstration and Validation	4,696	6,530
Engineering & Manufacturing Development	4,477	5,272
Management Support	2,664	2,839
Applied Research	1,284	1,312
Advanced Technology Development	794	815
Basic Research	505	518
<b>Total</b>	<b>25,608</b>	<b>30,412</b>

Numbers may not add due to rounding

This budget focuses on cost-effective modernization in key capabilities called out in the National Defense Strategy. Faced with an eroding technology advantage in an international environment of great power competition, the FY19 RDT&E budget invests heavily in innovative technologies, funds the modernization of our nuclear force, and transforms major space capabilities to better perform in a contested environment. It also directs funding to game-changing technologies, such as hypersonics, directed energy, unmanned autonomous artificial intelligence and machine learning systems, and nanotechnology.

The FY 2019 RDT&E request focuses on B-21 Raider Long Range Strike Bomber and Global Positioning System III follow on, while developing system and operational squadron-level constructs aimed to drive innovation that will increase the lethality of the force against emerging global threats. RDT&E increases funding for the VC-25B Presidential Aircraft Recapitalization (PAR), Combat Rescue Helicopter (CRH), and Advanced Training Pilot programs as their engineering efforts expand. The VC-25B PAR program will replace the aging VC-25A, commonly known as Air Force One, while the CRH program will replace aging HH-60G helicopters. Both platforms have been in the Air Force inventory for approximately three decades. Additionally, funding continues for mission systems development and systems engineering for the Air Dominance Study. The program is an operational system study that conducts operational analyses and threat studies to advance air superiority capability improvements that will maintain the lethal edge against global threats. Finally, funding will be used for the Advance Pilot Trainer, which will be used to develop new training aircraft and ground based training systems aimed to restore readiness by replacing aging training aircraft, simulators, academics and computer based training systems.

Also, the FY 2019 budget transitions our space investment by accelerating our efforts to move to a defensible space posture which is critical as our adversaries continue to build capabilities to deny our use of space. This budget discontinues the procurement of Space Based Infrared System satellites 7 and 8 and shifts funding to the engineering and manufacturing development of Evolved Space Based Infrared Systems (or E-SBIRS) that invests in the Next Generation Overhead Persistent Infrared (Next-Gen OPIR) system. The E-SBIRS will keep space domain systems responsive to new and changing threats and the Next-Gen OPIR will detect and report on current, emerging, and anticipated threats and is designed for survivability and resilience in the contested environment. Our modernization

efforts include development of steerable high power anti-jam capability for our GPS satellites, improving missile warning, and ensuring we optimize our ability to provide military forces the speed, precision and lethality they need in conflicts of today and tomorrow. We are developing the enhanced polar satellite - recapitalization communications system, which continues the availability of secure communications to military forces, and achieving cost efficiencies that will return value to the taxpayer.

Additionally, the FY 2019 budget request also increases investment in developmental prototyping efforts. Prototyping is an essential tool to get requirements right, inform critical decisions of operational utility, evaluate technical feasibility, and to expedite fielding of needed capabilities to the warfighter. The Air Force has prototyping efforts in adaptive engines, hypersonics, space, cyber/electronic warfare, and low-cost attritable aircraft technology. Funding continues mission systems development and systems engineering for the Long Range Stand Off (LRSO) Missile. The LRSO weapon is a cruise missile system capable of delivering a nuclear effect on strategic targets and increases the lethality of the force by penetrating and prosecuting strategic targets. Finally, the budget invests in the Ground Based Strategic Deterrent to continue Inter-continental Ballistic Missile modernization.

The Table below summarizes the major developments funded in this request.

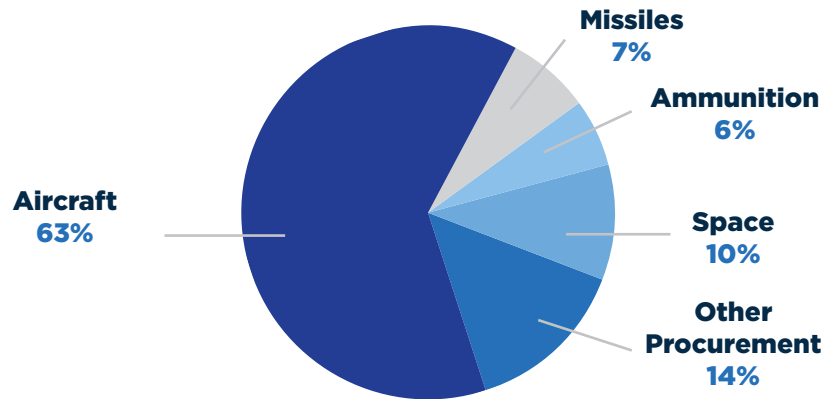
**TABLE 15. Significant RDT&E Programs**

<b>Program Highlights</b>		
<b>\$ Millions</b>		
	<b>FY18 PB</b>	<b>FY19 PB</b>
B-21	2,004	2,314
PAR	434	673
F-35A Capability Develop & Deliv	335	550
Air Superiority Family of Systems	295	504
Combat Rescue Helicopter	354	458
B-52H Upgrades	112	280
Advanced Pilot Trainer (T-X)	106	265
<b>Space</b>		
Next-Gen OPIR	71	643
GPS III Follow-on	0	452
<b>Nuclear</b>		
Long Range Stand Off Missile	451	615
GBSD	216	345

Numbers may not add due to rounding

# PROCUREMENT

Figure 10 depicts the FY 2019 Baseline TOA shown in Table 16 below subdivided into major activities.



**FIGURE 10. Procurement FY 2019 Baseline Budget Request**

The Procurement portfolio delivers both immediate and future capabilities through investment across five specific appropriations: Aircraft, Space, Missile, Ammunition, and Other Procurement. The Air Force seeks to satisfy national security requirements by investing in more lethal and cost-effective procurements, as well as modernization and recapitalization efforts. To meet those needs, the FY 2019 budget request funds 5th generation aircraft such as the F-35A, invests in modernizing the refueling fleet with the KC-46A, and fully funds preferred munitions to industry capacity. The following pages discuss the procurement appropriations in more detail.

**TABLE 16. Procurement TOA**

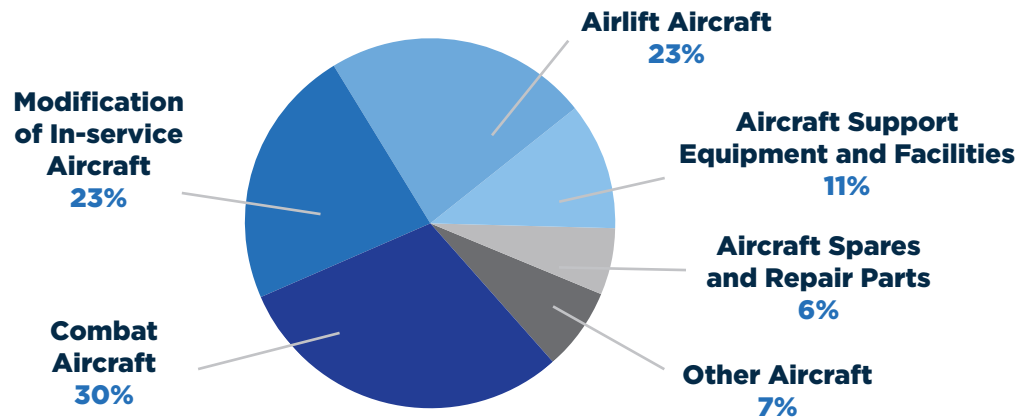
Procurement TOA (\$M)	FY18 PB	FY19 PB
Aircraft	15,378	16,179
Space	3,371	2,528
Missile	1,600	1,774
Ammunition	1,376	1,587
Other Procurement	3,043	3,632
<b>Total</b>	<b>24,768</b>	<b>25,700</b>

Numbers may not add due to rounding



# PROCUREMENT - AIRCRAFT

Figure 11 depicts the FY 2019 Baseline TOA shown in Table 17 subdivided into major categories.



**FIGURE 11. Aircraft Procurement FY 2019 Baseline Budget Request**

Aircraft Procurement funds procurement and modification of aircraft, support and specialized ground support equipment, training devices, and spare parts. Our FY 2019 budget request supports the Air Force’s priorities to cost effectively modernize. Air and space superiority are supported by increased procurement of F-35A aircraft and modernization of F-22A, F-15C/D/E, and F-16C aircraft to remain viable in modern-day contested airspace.



The FY 2019 budget request funds the procurement of 48 F-35A Joint Strike Fighters and bomber fleet modernization of the B-52H, B-1, and B-2 aircraft. The Air Force continues to invest in C2 by funding several upgrades to the E-3 Airborne Warning Command and Control aircraft (AWACS) fleet and Compass Call. The Air Force proposes to modernize E-3 AWACS aircraft to improve cockpit and navigation systems that will help sustain the E-8C JSTARS through mid-2020s. The budget also funds Compass Call modifications to procure digital narrow band and counter radar subsystems and the third generation special purpose emitter array system.

The Air Force continues to invest in ISR through the procurement of eight peacetime and 21 OCO medium-altitude MQ-9A Reaper, support to the RQ-4 Global Hawk and RC-135 Rivet Joint upgrade strategies, thus maintaining intelligence collection parity across the range of military operations. Investment in tanker recapitalization continues in FY 2019 with the procurement of an additional 15 KC-46A aircraft as part of the initial tanker fleet recapitalization. Additionally, our budget request supports personnel recovery and special operations through the baseline procurement of an HC-130J, six MC-130J, and ten Combat Rescue Helicopters (CRH) to replace and augment aging fleets of combat HC-130P/N, special operations MC-130E/H/P/W, and HH-60G helicopters.

The Table below summarizes funding for Aircraft Procurement by budget activity.

**TABLE 17. Procurement, Aircraft TOA**

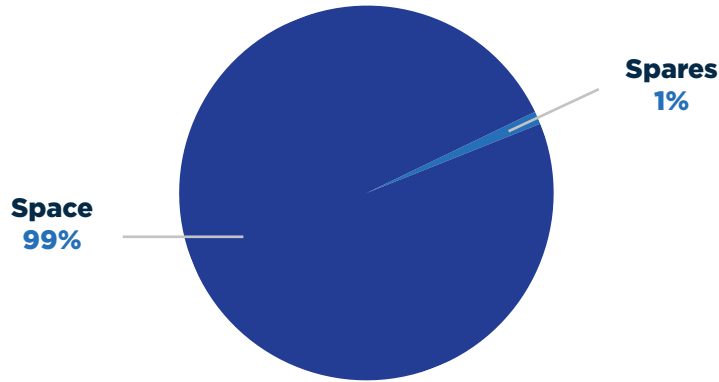
Procurement, Aircraft TOA (\$M)	FY18 PB	FY19 PB
Combat Aircraft	5,325	4,889
Modification of In-service Aircraft	3,466	3,698
Airlift Aircraft	3,313	3,713
Aircraft Support Equipment and Facilities	1,894	1,770
Aircraft Spares and Repair Parts	1,042	957
Other Aircraft	338	1,152
<b>Total</b>	<b>15,378</b>	<b>16,179</b>

Numbers may not add due to rounding



# PROCUREMENT - SPACE

Figure 12 depicts the FY 2019 Baseline TOA shown in Table 18 below subdivided into major categories.



**FIGURE 12. Space Procurement FY 2019 Baseline Budget Request**

The Space Procurement appropriation funds acquisition of spacecraft, terminals, ground control systems, modifications, and related communications security products. The FY19 budget funds the Evolved Expendable Launch Vehicle program that increases procurement of launch services to five. Additionally in FY 2019, the Air Force procures two weather space vehicle relay ground stations that address critical weather data needs.

**TABLE 18. Procurement, Space TOA**

Procurement, Space TOA (\$M)	FY18 PB	FY19 PB
Space	3,352	2,506
Spares <sup>1</sup>	19	22
<b>Total</b>	<b>3,371</b>	<b>2,528</b>

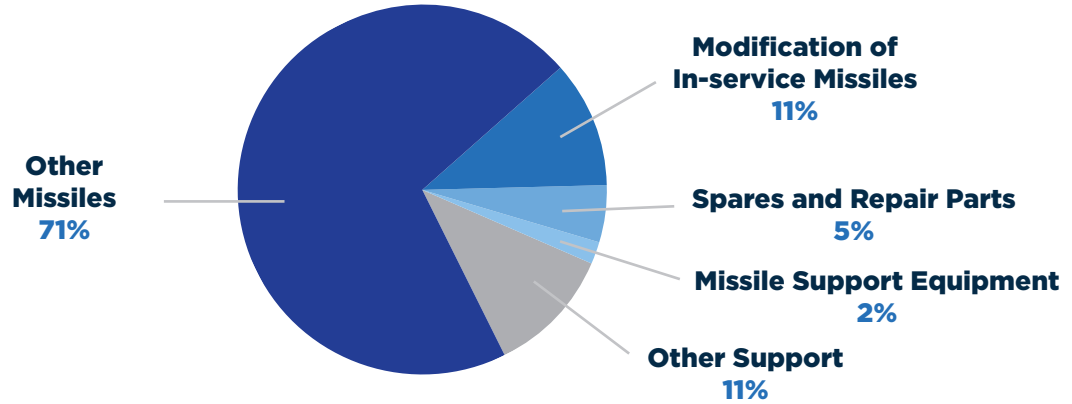
Numbers may not add due to rounding  
<sup>1</sup> Space Procurement Spares began in FY 17





# PROCUREMENT - MISSILE

Figure 13 depicts the FY 2019 Baseline TOA shown in Table 19 below subdivided into major categories.



**FIGURE 13. Missile Procurement FY 2019 Baseline Budget Request**

The Missile Procurement appropriation funds acquisition and modification of missiles, spare parts, and support equipment. The Air Force is increasing lethality by fully funding preferred munitions to current industry capacity through a combination of base and OCO to operate in a high end future conflict. In FY 2019, the Air Force will procure 2,917 Small Diameter Bombs (SDB-I), 510 SDB-II, 312 Joint Air-to-Surface Standoff Missile-Extended Range (JASSM-ER), and 1,338 Predator Hellfire air-to-ground missiles designed to be launched from aircraft at targets on land or sea. The Air Force will also procure 256 AIM-9X Sidewinder and 220 AIM-120D Advanced Medium-Range Air-to-Air Missiles (AMRAAM) to sustain the Air Force’s air dominance and global precision attack capabilities.

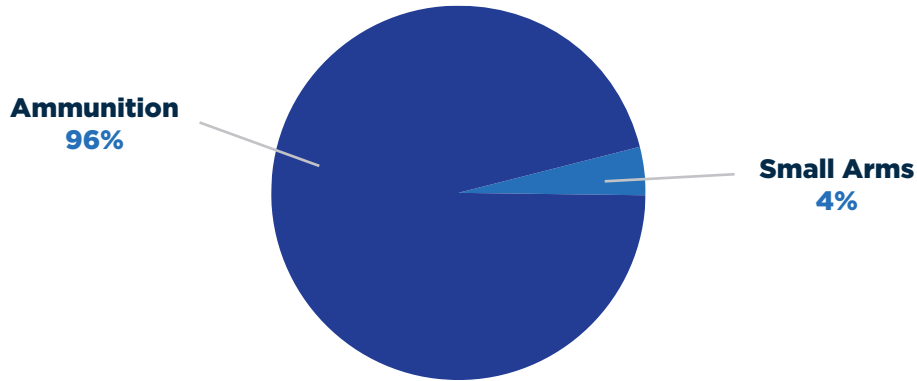
**TABLE 19. Procurement, Missile TOA**

Procurement, Missile TOA (\$M)	FY18 PB	FY19 PB
Other Missiles	1,218	1,254
Modification of In-service Missiles	137	197
Spares and Repair Parts	101	97
Missile Support Equipment	99	37
Other Support	45	189
<b>Total</b>	<b>1,600</b>	<b>1,774</b>

Numbers may not add due to rounding

# PROCUREMENT - AMMUNITION

Figure 14 depicts the FY 2019 Baseline TOA shown in Table 20 below subdivided into major categories.



**FIGURE 14. Ammunition Procurement FY 2019 Baseline Budget Request**

The Ammunition Procurement appropriation funds procurement, production, and modification of ammunition. The portfolio primarily supports the Global Strike core function and includes ammunition, rockets, bombs, flares, fuses, cartridges, and related training devices. The FY 2019 request procures preferred munitions, such as 7,899 Joint Direct Attack Munition (JDAM) and 7,279 Advanced Precision Kill Weapon System (APKWS). JDAM is funded to maximum production capacity between both base and OCO funding and integrates a GPS aided internal navigation system kit to provide an accurate, adverse weather capability munition attached to a plethora of Air Force platforms. The APKWS is a weapon that offers greater precision, reduced collateral damage, and increased standoff range to enhance crew survivability.

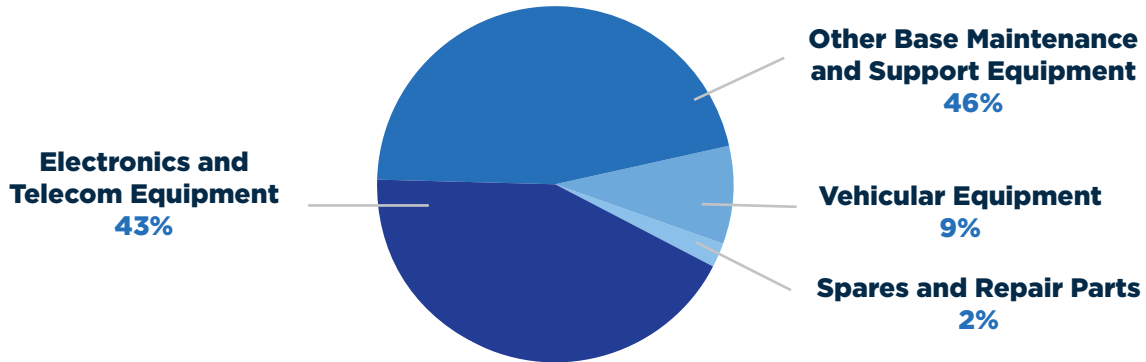
**TABLE 20. Procurement, Ammunition TOA**

Procurement, Ammunition TOA (\$M)	FY18 PB	FY19 PB
Ammunition	1,348	1,523
Small Arms	28	64
<b>Total</b>	<b>1,376</b>	<b>1,587</b>

Numbers may not add due to rounding

# PROCUREMENT - OTHER

Figure 15 depicts the FY 2019 Baseline TOA shown in Table 21 below subdivided into major categories.



**FIGURE 15. Other Procurement FY 2019 Baseline Budget Request**

The Other Procurement appropriation funds procurement and modification of investment equipment, ground electronic systems, communication equipment, information systems, base support equipment, vehicles and physical security systems. FY 2019 focuses on modernizing and replacing equipment that has reached end of life to support improved communications and warfighter equipment required to defend and protect high value targets.

The Air Force is fielding the Global Aircrew Strategic Network Terminal (Global ASNT), which replaces inadequate, unsustainable strategic communications supporting secure Emergency Action Messages (EAMs) and Force Management messages from Nuclear Command, Control and Communications (NC3) systems. FY 2019 accelerates an open architecture environment for the planning, direction, collection, processing, exploitation, analysis, production and dissemination of Intelligence, Surveillance, and Reconnaissance (ISR) mission data. This sharing of information strengthens our alliances within DoD and with other Federal Intelligence Agencies.

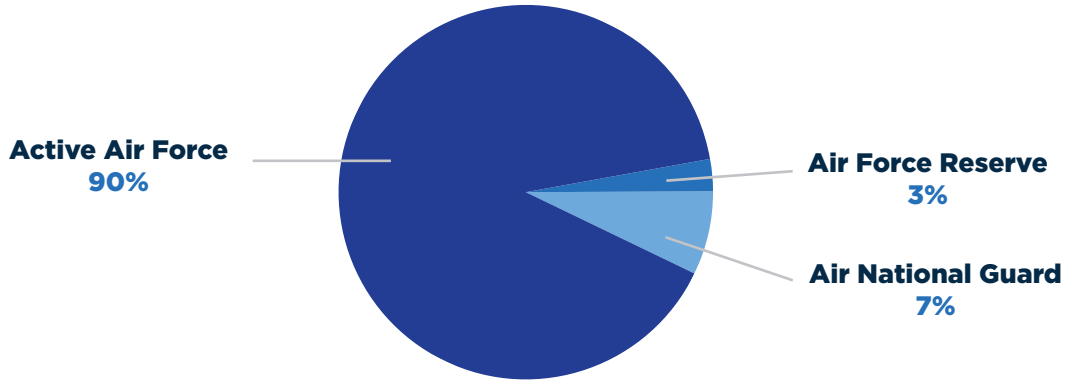
**TABLE 21. Procurement, Other TOA**

Procurement, Other TOA (\$M)	FY18 PB	FY19 PB
Electronics and Telecom Equipment	1,517	1,546
Other Base Maintenance and Support Equipment	1,228	1,662
Vehicular Equipment	271	338
Spares and Repair Parts	27	86
<b>Total</b>	<b>3,043</b>	<b>3,632</b>

Numbers may not add due to rounding

# MILITARY CONSTRUCTION (MILCON)

Figure 16 depicts the FY 2019 Baseline TOA shown below in Table 22 below subdivided by component.



**FIGURE 16. MILCON FY 2019 Baseline Budget Request**

Infrastructure is the Air Force’s power projection and readiness-building platform. Resilient installations are a critical component of Air Force operations. This results in spending scarce resources on excess infrastructure instead of operational and readiness priorities. Within these constraints, the Air Force continues to prioritize MILCON investments to ensure critical infrastructure requirements meet mission needs and operational timelines.

The Air Force’s FY 2019 Total Force budget request contains \$1.8B for Military Construction, approximately \$186.0M less than the FY 2018 President’s Budget funding. It focuses the limited resources on Combatant Commander priorities, new weapon system beddowns, and modernizing our research, development and test infrastructure.

**TABLE 22. MILCON TOA**

MILCON TOA (\$M)	FY18 PB	FY19 PB
Active Air Force	1,739	1,599
Air Force Reserve	64	50
Air National Guard	161	129
<b>Total</b>	<b>1,964</b>	<b>1,778</b>

Numbers may not add due to rounding

## MILCON - ACTIVE AIR FORCE

The FY 2019 Active Air Force MILCON budget request supports new weapon system beddowns, addresses Combatant Commanders' highest construction priorities, strengthens the nuclear enterprise, and modernizes our research, development and test infrastructure. The FY 2019 budget request includes \$887.0M in infrastructure investment to support the Air Force's top modernization and recapitalization programs, to include the F-35A, KC-46A, Presidential Aircraft Recapitalization (PAR) and MQ-9A. This request includes projects to support the beddown of the F-35A at Eielson AFB, Alaska (\$63.8M) and Royal Air Force (RAF) Lakenheath, United Kingdom (\$148.5M) and provides a Student Dorm (\$28.0M) and an Integrated Training Center (\$34.9M) at Eglin AFB, Florida. The Air Force will construct a KC-46A Depot Maintenance Hangar (\$81.0M) and a KC-46A Depot Fuel Maintenance Hangar (\$85.0M) at Tinker AFB, Oklahoma in order to provide the required number of hangar docks to support the critical phased depot maintenance capability essential to the KC-46A mission.

The Air Force's FY 2019 budget request provides the remaining increment of funds (\$154.0M) for construction of the Presidential Aircraft Recapitalization Complex (total project cost: \$254.0M) at Joint Base Andrews, Maryland, which includes a large aircraft hangar, aircraft access taxiway and parking apron. It funds the relocation of existing Hazardous Cargo Pad



and Explosive Ordnance Disposal Proficiency Range facilities (\$37.0M) that will be displaced by the PAR Complex. The Air Force will construct an MQ-9A Operations Facility (\$53.0M) at Shaw AFB, South Carolina, supporting an additional MQ-9A assignment location to aid in retention, as part of Air Combat Command's Culture and Process Improvement Program which is designed to address the vital challenges and stresses uniquely associated with Remotely Piloted Aircraft weapons system communities. The budget request also provides funding for a new MQ-9A Operations and Command Center (\$31.0M) and MQ-9A Ground Control Station (GCS) Operations Facility (\$28.0M) at Creech AFB, Nevada for the new Block 9 GCS platform.

This year's budget request includes \$214.6M for Combatant Commander requirements. The Air Force will construct a Personnel Deployment Processing Facility (\$40.0M) and Air Base Flightline Support Facilities (\$30.4M) at Al Udeid AB, Qatar to provide properly sized facilities for more efficient operations at this U.S. Central Command theater airlift hub.

The Indo-Pacific theater remains a focus area for the Air Force and the FY 2019 budget request provides funding to construct a Cargo Pad with Taxiway Extension (\$46.0M) and a Maintenance Support Facility (\$4.7M) on the island of Tinian, Commonwealth of Northern Mariana Islands, in support of weather divers, training exercises and natural disaster response, and the second of three planned Munitions Storage Igloos (\$9.8M) at Anderson AFB, Guam, to support munitions beddown and transition requirements in the Pacific Area of Operations.

Two FY 2019 MILCON projects totaling \$75.5M support nuclear enterprise priorities. The Air Force will recapitalize and consolidate several current facilities at Minot AFB, North Dakota including a Helicopter Squadron Operations Facility and an Aircraft Maintenance Shelter (\$66.0M) to improve crew response times and security team support for the ICBM missile alert and launch sites.

The Air Force’s FY 2019 budget request also supports Massachusetts Institute of Technology - Lincoln Laboratory (MIT-LL) research activities, consolidating the distributed compound semiconductor and advanced packaging laboratories into a single purpose-built facility (\$225.0M) designed to safely handle and support complex electronic research and development. This project will enhance the capabilities of this premier Federally Funded Research and Development Center in designing, fabricating and fielding specialized advanced electronic prototypes which enable a wide range of ground, air, and space based missions of importance to our national security.

In total, the Air Force’s FY 2019 budget request represents a balanced approach to ensure critical infrastructure requirements meet mission needs and operational timelines. The Active Air Force FY 2019 budget request is summarized in Table 23, while a comprehensive MILCON project list is included in Table 24.

**TABLE 23. MILCON, Active Air Force TOA**

MILCON, Air Force Active TOA (\$M)	FY18 PB	FY19 PB
Major Construction	1,610	1,365
Minor Construction	31	38
Planning and Design	98	196
<b>Total</b>	<b>1,739</b>	<b>1,599</b>

Numbers may not add due to rounding



**TABLE 24. Worldwide Base MILCON Project List**

State/Country	Installation	Project	Request (\$K)
Alaska	Eielson	F-35A School Age Facility	22,500
Alaska	Eielson	F-35A CATM Range	19,000
Alaska	Eielson	F-35 Aircraft Maintenance Unit Admin Facility	6,800
Alaska	Eielson	F-35 Conventional Munitions Maintenance Facility	15,500
Arizona	Luke	F-35A Squad OPS #6	17,000
Arizona	Luke	F-35A Aircraft Maintenance Unit Facility	23,000
Florida	Eglin	F-35A Student Dormitory II	28,000
Florida	Eglin	F-35A Integrated Training Center Academics BLDG	34,863
Florida	MacDill	KC135 Beddown ADD Flight Simulator Training	3,100
Guam	Joint Region Marianas	Hayman Munitions Storage Igloos MSA 2	9,800
Mariana Island	Tinian	APR - Cargo Pad with Taxiway Extension	46,000
Mariana Island	Tinian	APR - Maintenance Support Facility	4,700
Maryland	JB Andrews	PAR Relocate Haz Cargo Pad and EDD Range	37,000
Maryland	JB Andrews	Presidential Aircraft Recap Complex (Increment)	154,000
Massachusetts	Hanscom	MIT-Lincoln Laboratory (West Lab CSL/MIF)	225,000
Nebraska	Offcut	Parking Lot, USSTRATCOM	9,500
Nevada	Creech	MQ-9 CPIP GCS Operations Facility	31,000
Nevada	Creech	MQ-9 CPIP OPS & Command Center Facility	28,000
Nevada	Nellis	CRH Simulator	5,900
New Mexico	Holloman	MQ-9 FTU OPS Facility	85,000
North Dakota	Minot	Consolidated HELO/TRF OPS/AMU And Alert FAC	66,000
Oklahoma	Altus	KC-46A FTU/FTC Simulator Facility PH 3	12,000
Oklahoma	Tinker	KC-46A Depot Maintenance Hangar	81,000
Oklahoma	Tinker	KC-46A Depot Fuel Maintenance Hangar	85,000
Qatar	Al Udeid	Al Udeid AB, Qatar Personnel Deployment Proc	40,000
Qatar	Al Udeid	Al Udeid AB, Flightline Support Facilities	30,400
South Carolina	Shaw	CPIP MQ-9 MCE Group	53,000
Texas	JB San Antonio	BMT Dorm 6	25,000
United Kingdom	RAF Lakenheath	F-35A Fuel System Maintenance Dock 2 Bay	16,880
United Kingdom	RAF Lakenheath	F-35A Parking Apron	27,431
United Kingdom	RAF Lakenheath	F-35A AGE Facility	12,449
United Kingdom	RAF Lakenheath	F-35A ADAL Parts Store	13,926
United Kingdom	RAF Lakenheath	F-35A 6 Bay Hangar	39,036
United Kingdom	RAF Lakenheath	F-35A Dorm	29,541
United Kingdom	RAF Lakenheath	F-35A ADAL Conventional Munitions MX	9,204
Worldwide Unspecified	Unspecified Worldwide Locations	TACMOR - Utilities and Infrastructure	18,000
Worldwide Unspecified	Unspecified Worldwide Locations	Expeditionary Infrastructure in Europe/Africa	7,850
Worldwide Unspecified	Various Worldwide Locations	Planning and Design	187,727
Worldwide Unspecified	Various Worldwide Locations	Unspecified Minor Military Construction	38,500
<b>Active Total</b>			<b>1,598,607</b>
California	Channel Islands ANGS	Construct C-130J Flight Simulator Facility	8,000
Hawaii	Joint Base Pearl Harbor-Hickam	Construct Addition of F-22 LO/CRF B3408	17,000
Illinois	Greater Peoria Regional Airport	Construct New Fire Crash/Rescue Station	9,000
Louisiana	New Orleans	NORTHCOM - Construct Alert Apron	15,000
New York	Francis S. Gabreski Airport	Security Forces/Comm. Training Facility	20,000
Pennsylvania	Fort Indiantown Gap	Replace Operations Training/Dining Hall	8,000
Virginia	Joint Base Langley-Eustis	Construct Cyber Ops Facility	10,000
Worldwide Unspecified	Unspecified Worldwide Locations	Unspecified Minor Construction	23,626
Worldwide Unspecified	Various Worldwide Locations	Planning & Design	18,500
<b>Guard Total</b>			<b>129,126</b>
Indiana	Grissom ARB	Add/Alter Aircraft Maintenance Hangar	12,100
Minnesota	Minneapolis-St Paul IAP	Small Arms Range	9,000
Mississippi	Keesler AFB	Aeromedical Staging Squadron Facility	4,550
New York	Niagara Falls IAP	Physical Fitness Center	14,000
Texas	Fort Worth	Munitions Training/Admin Facility	3,100
Worldwide Unspecified	Unspecified Worldwide Locations	Unspecified Minor Construction	3,358
Worldwide Unspecified	Unspecified Worldwide Locations	Planning & Design	4,055
<b>Reserve Total</b>			<b>50,163</b>

## MILCON – AIR NATIONAL GUARD

The FY 2019 ANG MILCON budget request contains seven projects including vital recapitalization requirements (five projects at \$69.0M) and work to support force structure/mission realignments (two projects at \$18.0M). Air National Guard recapitalization efforts include a new hangar bay for low-observable corrosion control maintenance for F-22A fighters at Joint Base Pearl Harbor-Hickam, Hawaii; a new fire station at Peoria, Illinois; an aircraft alert apron supporting Noble Eagle operations at New Orleans, Louisiana; a security forces and communications training facility at Gabreski Airport, New York; and a new operations training and dining facility at Fort Indiantown Gap, Pennsylvania. Mission realignments include construction of a C-130J flight simulator facility at Channel Islands Air National Guard Station, California and beddown of a new cyber operations squadron at Joint Base Langley-Eustis, Virginia.

**TABLE 25. MILCON, Air National Guard TOA**

MILCON, Air National Guard TOA (\$M)	FY18 PB	FY19 PB
Major Construction	126	87
Minor Construction	17	24
Planning and Design	18	19
<b>Total</b>	<b>161</b>	<b>129</b>

Numbers may not add due to rounding

## MILCON – AIR FORCE RESERVE

The FY 2019 AFR MILCON budget request includes five priority requirements supporting current mission beddowns. Add/Alter Aircraft Maintenance Hangar (\$12.1M) at Grissom ARB, Indiana, Small Arms Range (\$9.0M) at Minneapolis-St. Paul IAP, Minnesota, Aeromedical Staging Facility (\$4.5M) at Kessler AFB, Mississippi, Physical Fitness Center(\$14.0M) at Niagara Falls IAP, New York and Munitions Training/Admin Facility (\$3.1M) at Naval Air Station JRB Ft. Worth, Texas.

**TABLE 26. MILCON, Air Force Reserve TOA**

MILCON, Air Force Reserve TOA (\$M)	FY18 PB	FY19 PB
Major Construction	55	43
Minor Construction	4	3
Planning and Design	5	4
<b>Total</b>	<b>64</b>	<b>50</b>

Numbers may not add due to rounding



# MILITARY FAMILY HOUSING

The FY 2019 Military Family Housing budget request reflects the Air Force’s continued emphasis on providing quality homes and support services for military members worldwide. The Family Housing Master Plan is the Air Force’s strategic investment planning tool that underpins these budget requirements. The FY 2019 budget request supports service members and their families through continued portfolio oversight of privatized housing, revitalization of our government-owned inventory, and leasing of homes as required.

**TABLE 27. Military Family Housing TOA**

MFH TOA (\$M)	FY18 PB	FY19 PB
MFH Operations and Maintenance	318	317
MFH-Construction Improvements	81	75
MFH-Construction Planning and Design	4	3
<b>Total</b>	<b>403</b>	<b>396</b>

Numbers may not add due to rounding

# BASE REALIGNMENT AND CLOSURE

The Air Force implemented all Base Realignment and Closure (BRAC) rounds as described in the Defense Base Closure and Realignment Commission reports to the President. The FY 2019 budget request continues environmental restoration at remaining BRAC properties through FY 2019. The Air Force continues to align cleanup resources with reuse schedules and remains committed to protecting human health and the environment.

The budget request for BRAC in FY 2019 is principally focused on environmental restoration and property transfer at installations closed under previous BRAC rounds. The program focuses on protecting human health and the environment through execution of projects that result in transferring acreage and achieving goals for environmental compliance remediation. In addition to achieving program goals and objectives, these projects must provide beneficial reuse of property and meet legally enforceable requirements.

Funding for this appropriation is displayed in Table 28 below.

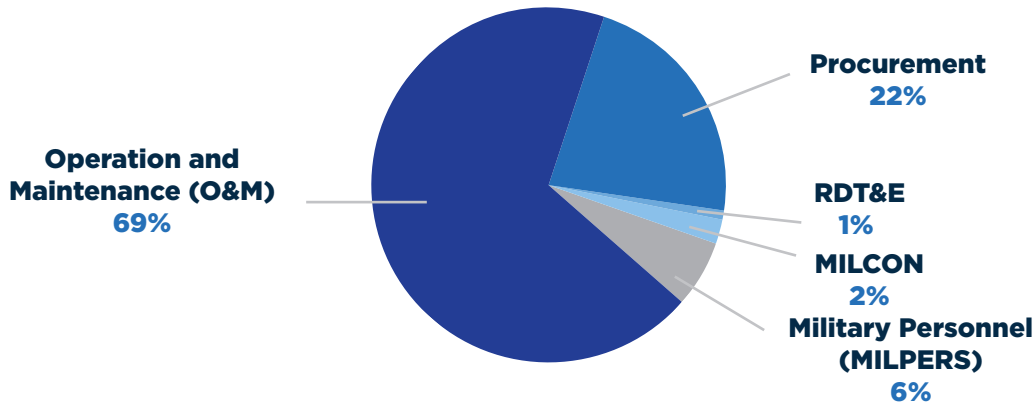
**TABLE 28. BRAC TOA**

BRAC TOA (\$M)	FY18 PB	FY19 PB
DOD Base Closure Account	54	53
<b>Total</b>	<b>54</b>	<b>53</b>

Numbers may not add due to rounding

# OVERSEAS CONTINGENCY OPERATIONS (OCO)

Figure 17 depicts the FY 2019 Baseline TOA shown below in Table 29 below subdivided into major activities. Major OCO MILCON projects are also depicted in Table 30.



**FIGURE 17. OCO FY 2019 Baseline Budget Request**

The Air Force serves as an integral Joint team partner and leverages the domains of air, space and cyberspace to uniquely contribute to OCO. The Air Force continues to lead the fight against Violent Extremist Organizations (VEO), while still heavily engaged in Afghanistan. The on-going actions in Operation INHERENT RESOLVE and Counter-ISIS have consumed multiple aircraft and approximately 66,000 weapons since the conflict’s inception. The FY 2019 OCO budget request replenishes prior year expended munitions, while also procuring a one-year forecast for heavy usage weapons. These weapons include OCO funded procurement of 3,909 Small Diameter Bombs I, the 28,101 Joint Direct Attack Munitions, and 3,000 Hellfire missiles. The budget also replenishes 21 MQ-9As and one HC-130J aircraft lost in combat. Our FY 2019 OCO budget request also provides operating and personnel support for six enduring locations and funds 10 Government Owned, Contractor Operated (GOCO) RPA combat lines in support of Combatant Command requirements. In addition to Middle East operations, the Air Force also serves as a critical partner in the Joint service response to a resurgent Russia and continues to support an increased U.S. military presence in Europe. The Air Force is increasing our posture in the Pacific through construction of a cargo pad taxiway extension and maintenance support facility on the island of Tinian, Commonwealth of Northern Mariana Islands (CNMI). The FY 2019 request includes \$4.8B of Weapon System Sustainment (WSS) funding transferred from the baseline O&M budget to OCO. This transfer supports readiness recovery by funding platforms used for contingency operations. In addition, the WSS transfer enables the Air Force to pursue newer, more advanced platforms to increase the lethality of the force.

The FY 2019 OCO request includes funding in support of the below operations/lines of effort:

- » **Afghanistan**
  - » Operation FREEDOM SENTINEL (OFS)
  - » Operation RESOLUTE SUPPORT (ORS)
- » **Syria/Iraq**
  - » Operation INHERENT RESOLVE (OIR)
- » **Combined Joint Task Force – Horn of Africa (CJTF-HOA)**
- » **European Deterrence Initiative (EDI)**

**TABLE 29. OCO TOA**

OCO, Air Force Total (\$M)	FY18 PB	FY19 PB
Operation and Maintenance (O&M)	10,324	10,664
Procurement <sup>1</sup>	2,106	3,431
Aircraft	741	1,019
Missile	395	494
Ammunition	502	1,421
Other	466	497
Space	2	0
Military Personnel (MILPERS)	940	991
MILCON	478	346
RDT&E	69	191
<b>Total</b>	<b>13,917</b>	<b>15,623</b>

Numbers may not add due to rounding  
 Does not include \$4.8B of WSS Base requirements submitted in OCO  
<sup>1</sup> Sum of Aircraft, Missile, Ammunition, Other and Space sub categories

**TABLE 30. Worldwide OCO MILCON Project List**

STATE/COUNTRY	INSTALLATION	PROJECT	REQUESTED (\$K)
Germany	Raimstein Air Base	EDI - KMC DABS-FEV/RH Storage Warehouse	119,000
Norway	Rygge Air Station	EDI - Construction Taxiway	13,800
Slovakia	Malacky Air Base	EDI - Regional Munitions Storage Area	59,000
United Kingdom	RAF Fairford	EDI - Construct DABS-FEV Storage	87,000
United Kingdom	RAF Fairford	EDI - Munitions Holding Area	19,000
Worldwide Unspecified	Unspecified Worldwide Locatio	Planning and Design	48,000
<b>Active MILCON OCO Total</b>			<b>345,800</b>



# SUMMARY



The Air Force budget request of \$156.3 billion for Fiscal Year 2019 builds on the progress made in 2018 to restore the readiness of the force, increase lethality, and cost-effectively modernize. Sustaining these efforts requires predictable, sufficient, and flexible budgets. This FY19 Budget Request is a critical step toward addressing the issues raised by our leaders. Air and space power are indispensable to every joint operation....and the FY19 budget request is aligned with the recently approved National Defense Strategy, prioritizing long-term competition with China and Russia. This budget sets the conditions to deliver a lethal, globally responsive, United States Air Force. Together, we can build the Air Force our nation needs....with the right size and mix of agile capabilities to compete, deter, and win in the complex international environment we face today and into the future.



## APPENDIX

## Air Force Total Aircraft Inventory (TAI)

Active Air Force							
Aircraft	FY17	FY18	FY19	Aircraft	FY17	FY18	FY19
A-10	104	143	143	KC-10	59	59	53
AC-130	24	35	38	KC-135	135	147	143
B-1	53	62	61	KC-46	0	28	34
B-2	16	20	20	MC-130H	16	16	15
B-52	47	58	58	MC-130J	30	37	41
C-130J	85	104	105	MC-130P	4	0	0
C-5	33	36	36	MQ-9	198	220	251
C-12	29	28	29	NC-135	0	1	1
C-17	147	154	146	OC-135	2	2	2
C-21	21	19	19	RC-135	17	22	22
C-32	4	4	4	RQ-4	33	36	35
C-37	12	12	12	T-1	163	178	178
C-40	4	4	4	T-6	341	444	444
C-130H	5	0	0	T-38	395	504	504
CV-22	47	50	50	T-41	4	4	4
E-3	24	31	31	T-51	3	3	3
E-4	3	4	4	T-53	24	24	24
E-9	2	2	2	TC-135	3	3	3
E-11A	4	4	4	TG-15	5	5	5
EC-130H	13	14	14	TG-16	19	19	19
F-15	279	316	316	TH-1	24	28	28
F-16	503	557	553	TU-2	4	5	4
F-22	149	166	166	U-2	24	27	26
F-35	119	161	210	UH-1	48	68	68
HC-130J	19	19	19	UV-18B	2	3	3
HC-130N	0	0	0	VC-25	2	2	2
HH-60	80	82	91	WC-130H	7	0	0
VCX	0	0	2	WC-135	1	2	2

Air National Guard			
Aircraft	FY17	FY18	FY19
A-10	72	85	85
C-17	40	50	50
C-21	0	0	0
C-32	2	2	2
C-40	3	3	3
C-130H	124	123	123
C-130J	14	16	16
HC-130N	6	2	0
HC-130P	3	3	0
E-8	14	16	13
F-15	116	137	137
F-16	264	336	333
F-22	18	20	20
F-35A	0	0	2
HH-60	0	20	18
HC-130J	1	8	12
KC-135	165	163	164
KC-46	0	12	12
MQ-9	20	47	24
LC-130H	10	10	10
EC-130J	6	7	7
RC-26B	11	13	13

Air Force Reserve			
Aircraft	FY17	FY18	FY19
A-10	48	55	55
B-52	16	18	18
C-5	11	16	16
C-17	16	18	26
C-40	4	4	4
C-130H	44	49	46
C-130J	10	10	10
HC-130N/P	0	5	4
F-16	48	55	53
HH-60	13	16	16
KC-135	72	72	74
WC-130J	10	10	10

**Notes:**

1. Includes Programmed Total Aircraft Inventory (TAI) only
2. Excludes ALCM, ICBM, LRE, Aerial Target, and Ground Control Stations
3. Includes industrial funded, RDT&E, and Special Operations Command (SOCOM) aircraft.

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Appn	Weapons System	Requirement Title	FY19 PB (\$M)
1	3010 C-135B	Open Skies Treaty (OST) Aircraft Recapitalization	222.2
2	3010 Combat Rescue Helicopter	Combat Rescue Helicopter Procurement	680.2
3	3010 RQ-20B Puma	RQ-20B Puma Procurement	13.5
4	3010 B-52	Bomber Tactical Data Link	3.0
5	3010 B-52	Airspace Compliance	2.0
6	3010 A-10	A-10 J-Hook System	0.8
7	3010 A-10	A-10 Conversion Fuel Tanks	8.7
8	3010 F-15	F-15C/D IFF Mode 5	9.5
9	3010 F-15	F-15C/D APG-63(V)3 Common Config	4.3
10	3010 F-22	Crypto Modernization	0.8
11	3010 F-22	Tactical Mandates	20.0
12	3010 F-15 EPAWS	EPAWSS-E	147.7
13	3010 KC-46	Low Cost Modifications	2.0
14	3010 C-5	C-5M Communication Navigation Surveillance/Air Traffic Management (CNS/ATM)	28.6
15	3010 C-17	C-17 Simulator Lateral Motion Maneuver Enhancement	2.5
16	3010 C-17	C-17 Training System (Other Mods)	12.4
17	3010 C-32	Crew Rest Seats	0.7
18	3010 KC-10	KC-10 Mode 5	11.0
19	3010 C-135	KC-135 AERO-I SATCOM replacement	21.7
20	3010 C-135	Real Time in the Cockpit (RTIC)	26.2
21	3010 RC - 135	CONSTANT PHOENIX	208.3
22	3010 HC/MC-130 Recap	HC/MC-130J Block 8.1	31.9
23	3010 HC/MC-130 Recap	Paratroop Door	24.5
24	3010 HC/MC-130 Recap	Broadband Antenna	9.4
25	3010 MQ-9 Mods	Dismount Radar	0.0
26	3010 Aircraft Replacement Support Equipment	Flight Line Generator	2.9
27	3010 F-15E	Integrated Aircrew Trainers	5.0
28	3010 OTHER AIRCRAFT	Man-in-the-Loop Threat Simulators	9.9
29	3020 LGM-30 Mods	MM III Auto Switching Unit (ASU)	6.1
30	3020 AGM-86	Support Equipment	2.7
31	3020 AGM-86	Inertial Navigation Element (INE)	0.0
32	3021 RSLP	Small Launch Service	47.6
33	3021 Space Fence	Space Fence	51.4
34	3021 Space Modifications	Ballistic Missile Defense Radars	7.9
35	3021 Space Modifications	PARCS Block 01 (Reliability & Maintainability)	8.6
36	3021 Space Modifications	Submarine-Launched Ballistic Missile (SLBM) Radar Warning System	0.5
37	3080 Intelligence Communications Equipment	Distributed Common Ground/Surface Systems	0.4
38	3080 Intelligence Communications Equipment	Item New Item	5.0
39	3080 Intelligence Communications Equipment	Space Superiority Intel Activities	0.8
40	3080 Intelligence Communications Equipment	Fixed Site SATCOM Terminal (FSST)	21.3
41	3080 General Information Technology	Software Licenses	7.2
42	3080 Maintenance Repair and Overhaul Initiative	Maintenance Repair and Overhaul Initiative	12.2
43	3080 Theater Battle Management C2 System	Item Deployable C2 (OCO)	2.5
44	3080 Base Communications Infrastructure	Item Info Tech Svcs Mgt (ITSM)	6.0
45	3600 Deployment and Distribution Enterprise	Advanced Planning for Global Response Force Mission	0.7
46	3600 Deployment and Distribution Enterprise	Autonomous Drone Delivery from Airdrop Systems	0.6
47	3600 Deployment and Distribution Enterprise	Optimized HALO Delivery using Probabilistic Airdrop Planner	0.7
48	3600 Deployment and Distribution Enterprise	Infrastructure Information Confidence Model	0.9
49	3600 Deployment and Distribution Enterprise	Synchronizing Mobility Allocations and Resources for Transportation	1.5
50	3600 Deployment and Distribution Enterprise	Operationally Transparent Cyber	1.3
51	3600 Mission Partner Environments	Mission Partner Environment	10.1
52	3600 Weather System Follow-on	Military Application of the Space Environment (MASE)	18.4
53	3600 Nuclear Weapons Support	Weapon Storage Facility Material Handling Systems	1.5
54	3600 Tactical Data Networks Enterprise	Agile Comms	68.0
55	3600 Tactical Data Networks Enterprise	High Capacity Backbone (HCB)	33.0
56	3600 Tactical Data Networks Enterprise	Link 16 Enhancements	6.0
57	3600 Armament/Ordnance Development	Joint Air-to-Ground Missile for Fixed Wing (JAGM-F)	31.6
58	3600 Combat Training Ranges	Live Mission Operations Capability (LMOC)	0.35
59	3600 KC-46	Avionics Enhancements	13.4
60	3600 Acq Workforce- Global Battle Mgmt	Acquisition Support	3.6
61	3600 GPS IIIC	GPS III Follow-On Development	451.9
62	3600 Specialized Undergraduate Flight Training	Crash Survivable Recorder (CSR)	0.2
63	3600 Assessments and Evaluations Cyber Vulnerabilities	Address Weapon System Cyber Vulnerabilities	46.3
64	3600 Assessments and Evaluations Cyber Vulnerabilities	Address Infrastructure Cyber Vulnerabilities	46.3
65	3600 Assessments and Evaluations Cyber Vulnerabilities	Exercise Participation	6.5
66	3600 B-52 Squadrons	AFMC Test Assets	17.8
67	3600 B-52 Squadrons	B-52 VLF/LF Modernization	21.8
68	3600 B-52 Squadrons	Advanced Target POD MFC	1.6
69	3600 B-52 Squadrons	B-52 Advanced Extremely High Frequency (AEHF) Integration	13.4
70	3600 B-52 Squadrons	B-52 Re-Engining	64.5
71	3600 Air-Launched Cruise Missile (ALCM)	Inertial Navigation Element (INE)	5.0
72	3600 B-2 Squadrons	B-2 Radar Aided Targeting System (RATS)	23.7
73	3600 ICBM Reentry Vehicles	Mk21A Technology Maturation Risk Reduction	18.4
74	3600 MQ-9 UAV	Communications	0.1
75	3600 Joint Counter RCIED Electronic Warfare	CREW device intregation	4.0
76	3600 A-10 Squadrons	ARC-210 Gen 6	9.1
77	3600 A-10 Squadrons	J-Hook	1.0
78	3600 F-15E Squadrons	Mobile User Objective System (MUOS)/Second Generation Anti-jam Tactical UUF Radio for NATO (SATURN)	4.0
79	3600 F-15E Squadrons	F-15 C/D/E ADS-B	1.2

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80	3600	F-22A Squadrons	Sensor Enhancements
81	3600	Air & Space Operations Center (AOC)	Multi-Domain Command and Control (MDC2) Development
82	3600	Control and Reporting Center (CRC)	CRC Modernization Phase 2
83	3600	Airborne Warning and Control System (AWACS)	E-3 Advanced Battle Management and Surveillance (ABMS) Bridge Capabilities
84	3600	Joint Surveillance/Target Attack Radar System (JSTARS)	Secure Common Data Link
85	3600	Battlefield Abn Comm Node (BACN)	Military GPS, E-11A & Deployable Program Control Element (PCE)
86	3600	Battlefield Abn Comm Node (BACN)	Enable Entry in Other Service Funding Row
87	3600	E-4B National Airborne Operations Center (NAOC)	E-4B Mobile User Objective System (MUOS)
88	3600	E-4B National Airborne Operations Center (NAOC)	Survivable SHF
89	3600	High Frequency Radio Systems	High Frequency Radio System
90	3600	CCMD Intelligence Information Technology	Combatant Command Intelligence Information Technology (CCMD Intel IT)
91	3600	Airborne Reconnaissance Systems	Advanced Synthetic Aperture Radar System (ASARS) 2B
92	3600	Distributed Common Ground/Surface Systems	Sensor Integration
93	3600	Distributed Common Ground/Surface Systems	Video Data Link
94	3600	Rapid Cyber Acquisition	Cyber Capability Support Office
95	3600	Support Systems Development	LIMS-EV Version 3.0 - Business Capability Acquisition Cycle (BCAC) 3
96	3600	Financial Management Information Systems Development	DEAMS INC 2 Product Development
97	3600	Satellite Control Network (SPACE)	Resilient Enterprise Ground
98	3600	Evolved SBIRS	Next-Gen OPIR-Space

Total FY19 New Starts

# ACRONYMS

## A

<b>AB</b>	Air Base
<b>ACA</b>	Aerospace Control Alert
<b>ADAIR</b>	Adversary Air
<b>ADAL</b>	Add / Alter
<b>ADCP</b>	Advanced Display Core Processor
<b>ADS-B</b>	Automatic Dependent Surveillance-Broadcast
<b>AEHF</b>	Advanced Extremely High Frequency
<b>AESA</b>	Active Electronically Scanned Array
<b>AF</b>	Air Force
<b>AFB</b>	Air Force Base
<b>AFGSC</b>	Air Force Global Strike Command
<b>AFR</b>	Air Force Reserve
<b>AFRC</b>	Air Force Reserve Command
<b>AFWCF</b>	Air Force Working Capital Fund
<b>AGM</b>	Advanced Guided Missile
<b>AIM</b>	Air Intercept Missile
<b>ALCM</b>	Air Launched Cruise Missile
<b>AMP</b>	Avionics Compliance and Modernization
<b>AMRAAM</b>	Advanced Medium Range Air-to-Air Missile
<b>ANG</b>	Air National Guard
<b>AOC</b>	Air Operations Center
<b>AOR</b>	Area of Responsibility
<b>APKWS</b>	Advanced Precision Kill Weapon System
<b>ASNT</b>	Aircrew Strategic Network Terminal
<b>AWACS</b>	Airborne Warning and Control System

## B

<b>B</b>	Billion
<b>BRAC</b>	Base Realignment and Closure

## C

<b>C2</b>	Command and Control
<b>CCDR</b>	Combatant Commander
<b>CCMD</b>	Combatant Command
<b>CJTF</b>	Combined Joint Task Force
<b>CNMI</b>	Commonwealth of Northern Marianas Islands



**CRH** Combat Rescue Helicopter  
**CVR** Common Very Low Frequency/Low Frequency Receiver

## D

**DoD** Department of Defense  
**DWCF** Defense Working Capital Fund

## E

**EDI** European Deterrence Initiative  
**EELV** Evolved Expendable Launch Vehicle  
**EPAWSS** Eagle Passive/Active Warning Survivability System

## F

**FSRM** Facility Sustainment, Restoration and Modernization  
**FY** Fiscal Year  
**FYDP** Future Years Defense Program

## G

**GBSD** Ground Based Strategic Deterrent  
**GCS** Ground Control Station  
**GOCO** Government Owned, Contractor Operated  
**GPS** Global Positioning System

## H

**HOA** Horn of Africa

## I

**ICBM** Intercontinental Ballistic Missile  
**ISR** Intelligence, Surveillance and Reconnaissance  
**ISIS** Islamic State of Iraq and Syria

## J

**JASSM-ER**  
**JDAM**

Joint Air-to-Surface Standoff Missile - Extended Range  
Joint Direct Attack Munition

## K

**K**

Thousand

## L

**LRSO**

Long Range Standoff

## M

**M**  
**MFH**  
**MILCON**  
**MILPERS**  
**MIT-LL**  
**MOB**

Million  
Military Family Housing  
Military Construction  
Military Personnel  
Massachusetts Institute of Technology - Lincoln Laboratory  
Main Operating Base

## N

**NC3**

Nuclear Command and Control Communications

## O

**O&M**  
**OCO**  
**OCX**  
**OFS**  
**OIR**  
**ORS**  
**OSD**

Operations and Maintenance  
Overseas Contingency Operation  
Operational Control System  
Operation FREEDOM SENTINEL  
Operation INHERENT RESOLVE  
Operation RESOLUTE SUPPORT  
Office of the Secretary of Defense

## P

**PAR** Presidential Aircraft Recapitalization  
**PB** President's Budget  
**PRV** Plant Replacement Value

## R

**RAF** Royal Air Force  
**RDT&E** Research, Development, Test and Evaluation  
**ROTC** Reserve Officers Trainings Corps  
**RPA** Remotely Piloted Aircraft

## S

**SBIRS** Space Based Infrared System  
**SDB** Small Diameter Bomb  
**STEM** Science, Technology, Engineering, Math

## T

**TAI** Total Aircraft Inventory  
**TOA** Total Obligation Authority  
**TWCF** Transportation Working Capital Fund

## U

**USTRANSCOM** United States Transportation Command  
**USSTRATCOM** United States Strategic Command

## V

**VEO** Violent Extremist Organizations

## W

**WSS** Weapon System Sustainment



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**FISCAL YEAR 2019 BUDGET OVERVIEW**  
**[www.saffm.hq.af.mil/FM-Resources/budget/](http://www.saffm.hq.af.mil/FM-Resources/budget/)**

