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Department of the Air Force

Presentation

Before the House Armed Services Subcommittee on Readiness

Installations and Engineering

Witness Statement of Ms. Jennifer L. Miller Acting Assistant Secretary of the Air Force for Energy, Installations and Environment

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BIOGRAPHY



JENNIFER L. MILLER

Jennifer L. Miller, a member of the Senior Executive Service, is the Acting Assistant Secretary of the Air Force for Energy, Installations and Environment, Headquarters Air Force, the Pentagon, Arlington, Virginia. Ms. Miller is responsible for the formulation, review and execution of plans, policies, programs and budgets to meet Air Force installations, energy, environment, safety and occupational health objectives.

Prior to assuming her current position, Ms. Miller served as the Deputy Assistant Secretary of the Air Force for Installations, Headquarters Air Force, the Pentagon, Arlington, Virginia. She was responsible for the management, policy and oversight of Air Force installation programs. These included base realignments and closures, installations planning and strategy, strategic basing, the Air Force Environmental Impact Analysis Process, compatible and joint land use, encroachment management, public/private partnerships, the Readiness and Environmental Protection Integration program, housing and real property transactions. She also previously served as Deputy General Counsel, Installations, Environment and Energy Division, Office of the Air Force General Counsel.



Prior to becoming a member of the Senior Executive Service, Ms. Miller spent several years supporting the Air Force's real property and housing privatization programs. Before that, she was a real estate attorney at a Seattle law firm. She is also an Army Reserve Judge Advocate. In 2013 and 2014, she deployed with a special operations joint task force in Afghanistan, and in 2018 and 2019, she served as the Deputy Staff Judge Advocate for United States European Command in Stuttgart, Germany. She currently supports United States Indo-Pacific Command exercises as an Operational Law Reserve Attorney.

EDUCATION

1997 Bachelor of Arts, Politics, Philosophy and Economics, magna cum laude, Claremont McKenna College, Calif.2001 Juris Doctor degree, cum laude, Seattle University, Wash.2001 Master of Business Administration, Seattle University, Wash.

CAREER CHRONOLOGY

- 1. 1997, Legal Intern, Smith & Zuccarini, P.S., Bellevue, Wash.
- 2. 1998–1999, Legal Intern, Kent City Attorney's Office, Kent, Wash.
- 3. 1999–2000, Tax Associate, Arthur Anderson, Seattle
- 4. 2000–2001, Legal Intern, Foster Pepper, PLLC, Seattle
- 5. 2001–2005, Associate, Foster Pepper, PLLC, Seattle

6. 2005–2007, Senior Counsel, Secretary of the Air Force/General Counsel - Air Force Housing Privatization (AFCEE/HP)

- 7. 2007–2008, Senior Counsel, SAF/GCN Air Force Real Property Agency
- 8. 2008-2009, Chief Counsel, SAF/GCN AFRPA
- 9. 2009–2011, Chief Counsel, SAF/GCN San Antonio (AFCEE/HP and AFRPA)
- 10. 2011–2015, Deputy General Counsel, Installations, Energy and Environment
- 11. 2015–2020, Deputy Assistant Secretary of the Air Force for Installations
- 12. 2020-2021, Principal Deputy Assistant Secretary of the Air Force for Installations, Environment and Energy, the

Pentagon, Arlington, Va. 13. 2021–present, Acting Assistant Secretary of the Air Force for Energy, Installations and Environment, the Pentagon, Arlington, Va.

AWARDS AND HONORS

Presidential Rank Award Meritorious Civilian Service Award Bronze Star Medal Meritorious Service Medal Army Commendation Medal Army Achievement Medal

PROFESSIONAL MEMBERSHIPS

District of Columbia Bar Phi Beta Kappa

(Current as of January 2021)

Introduction

Installations are weapon systems. Every Department of the Air Force (DAF) mission starts and ends on an installation. We train and equip joint operations, project power, generate readiness, test new platforms, and provide safe and healthy communities at our Air and Space Force installations, which serve as key nodes in enabling Joint Force mission success around the world. More than 330,000 active duty personnel organize, train, and equip at DAF installations, and for thousands of Airmen, Guardians, and their families, installations also serve as their homes. The readiness and resiliency of installations is a matter of strategic importance.

Our Nation faces several challenges: the rise of great power competition with China and Russia, the increasing complexity of threats that emanate from several domains simultaneously, fiscal pressures, the rapidly increasing rate of technology change, and the fact that our installations are threatened in new ways. In particular, the rapidly changing climate and the growing strength and frequency of natural disasters endangers, not only our Airmen and the places where they live and work, but our weapon systems, defense infrastructure, and water and power networks.

The Fiscal Year 2022 (FY22) President's Budget Request supports the Interim National Security Strategic Guidance and lays out a plan to modernize our military capabilities. The Military Construction (MILCON) budget prioritizes nuclear enterprise modernization and Combatant Command (CCMD) infrastructure support in the European and Pacific theaters. The budget also funds high return-on-investment operational energy initiatives, including the optimization and modernization of legacy aircraft, which increases our readiness and provides more combat capability for every gallon of fuel consumed – while also mitigating greenhouse gas emissions. Furthermore, the budget provides for the wellbeing and quality of life of our service members and their families through investments in housing, dormitories, child development centers, and community support facilities. The result is a budget that supports installations capable of fulfilling mission requirements and the needs of our Airmen, Guardians, and their families.

Within the installations, environment, and energy portfolio, the DAF is facing numerous challenges that are influencing our investment decisions and budget execution. We are committed to overcoming these challenges and appreciate the continued help from Congress to address them and ensure the Air and Space Forces are enabled to defend the Nation and our allies.

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Challenges

Installations

The DAF has continually accepted risk in installation investment as resources are prioritized to the most critical needs, ensuring the Service can continue to deliver combat capability to the Joint Force. Over time, this resulted in atrophied facilities and infrastructure with a deferred maintenance and repair backlog of more than \$30 billion. More than 1,500 facilities are considered poor (Building Condition Index of 55 or less on a 100 point scale) and require significant investment. If left unchecked, the condition of infrastructure will impact the Department's ability to safely and effectively execute our mission. Additionally, atrophied facilities and infrastructure are more susceptible to effects of routine or severe weather events. This was evident at Tyndall Air Force Base (AFB) during Hurricane Michael in 2018 where facilities constructed more recently, using updated building codes, weathered the storm better than degraded or older facilities which were constructed under outdated building codes and subject to longer term deferred maintenance. We also observed this during recent severe winter storms across the United States. In many instances, degraded facility systems and components failed, which caused water and fire suppression liquids to freeze, expand, and eventually burst the pipes.

The DAF has also struggled to award MILCON projects in the year of appropriation. Suboptimal design maturity, as a result of insufficient budgeting for Planning and Design (P&D), significantly contributed to cost overruns and drove the need to request additional funds or reprogram. Design maturity issues also led to the need to finish or re-design projects after funding was appropriated leading to additional cost increases and construction award delays. These delays have also left MILCON funds susceptible to rescission or reallocation.

Operational Energy

Our Joint Force wargames have highlighted the critical need to defend our energy networks at home and abroad, from our bases to forward deployed locations. Contested and competitive operating environments and the changing geopolitical landscape threaten our fuel and power supplies like never before. The DAF does not - and will not - have undisputed access to the substantial energy resources we require to operate around the world. In order to achieve our global mission, warfighters must have assured access to energy that is resilient to all hazards and threats.

Overcoming Challenges

The DAF is working to overcome these challenges through implementation of our Infrastructure Investment Strategy (I2S), increased senior leader oversight of the portfolio, and reforms within our MILCON program. First introduced in 2019, the I2S is the Department's long-term strategy to cost-effectively modernize and restore infrastructure readiness, improve the resiliency of mission-critical nodes, and drive innovation in installation management practices. This strategy informs efforts to optimize facility and infrastructure investment decisions and project prioritization within the MILCON and Facilities Restoration, Sustainment, and Modernization (FSRM) programs. The I2S also focuses on the recapitalization of facilities and infrastructure by identifying opportunities to reduce costly infrastructure in poor condition which no longer sufficiently meets mission requirements.

In an effort to leverage advanced infrastructure risk analytics, the DAF continues to develop predictive models which use current building condition information to advance requirements. As a result, the DAF developed our first five-year Integrated Priority List (IPL) for FSRM projects for the FY21-25 program and continues it this year. It is a key step in our intentional shifting from a "worst-first" prioritization approach to investing at the optimal time of the lifecycle for a facility, otherwise known as "sweet spot" investing.

The DAF senior leaders oversee I2S implementation efforts through the biannual Infrastructure Program Management Review, where we review and provide guidance on the direction of I2S initiatives. In order to assess the impact of funding and asset management practices on infrastructure readiness, the DAF developed a series of metrics. These figures show the impact of I2S policies on infrastructure condition, investment decisions, facility space use, and MILCON cost growth. Assessing the impact of I2S initiatives on a regular basis allows senior leaders to make timely decisions that affect not only execution of the program but future budget decisions as well.

In building the FY22 program, the DAF made great strides to build a mature, stable MILCON program to address award timeline issues and cost overruns. We defined 35% design criteria to ensure project documentation was consistent for every project, created a two-year program lock to stabilize the program and optimize P&D expenditures, and enforced admissibility criteria with requirement owners across the enterprise to ensure only ready projects were included in the budget proposal. The FY22 program includes only two projects (Royal Air Force

Lakenheath Weapons Load Training Facility and Munitions Inspection Facility) that did not meet the Financial Management Regulation 35% design milestone by August 31, 2020, but these projects reached 35% design on January 29, 2021, and are on track to award in the year of appropriation. Additionally, all projects exceeding \$40 million include Design/Construction Agent cost assessments to further build confidence in our program and estimates. We were also able to address under-designed projects over the last year. We used a portion of our FY21 appropriation to provide funding to bring all previously authorized and appropriated projects to full design.

The I2S also recommends programming annual Maintenance and Repair (M&R) funding at a minimum investment level of 2% of Plant Replacement Value (PRV), with an ultimate goal of 2.3% of PRV, to reduce the growing backlog of deferred maintenance and restore our facilities and infrastructure. M&R is made up of our FSRM portfolio as well as the portion of the MILCON program that recapitalizes existing infrastructure. The baseline funding level for FY22 demonstrates our deliberate efforts to align our budget request to the I2S.

<u>Energy</u>

The DAF works to incorporate energy considerations into the strategic planning process while investing in energy Research Development Test & Evaluation. We aim to ensure the acquisition system values and enhances the energy supportability of future platforms and operations, considering a full range of resilient, cyber-secure, and sustainable energy solutions, including renewable energy technologies, to meet the needs of mission critical functions while decreasing energy demand where possible. Through exercises, wargames, and modeling and simulation, we are incorporating energy resilience into emerging joint operational concepts to better identify and mitigate risk.

Special Interest Items

Tackling the Climate Crisis

Secretary of Defense Austin recently released his top three priorities for the Department of Defense: Defend the Nation, Take Care of our People, and Succeed through Teamwork. He identified tackling the climate crisis as one of the lines of effort under the priority to defend the nation, elevating climate as a national security priority. Changing climate and severe weather events are a continual threat to our installations. As the largest fuel consumer in the DOD, the DAF is not only addressing the need for climate adaptation to improve our resilience, but

introducing mitigation efforts to optimize fuel consumption and reduce our logistics burden, while simultaneously reducing greenhouse gas emissions.

Over the past several years, we have seen first-hand the impacts climate and severe weather can have on our installations and operations. The DAF is smartly moving forward with rebuild efforts at Tyndall AFB, Florida, following the devastation caused by Hurricane Michael in 2018 and Offutt AFB, Nebraska, following historic flooding in 2019. We are also recovering from recent winter storms that brought extreme cold to much of the United States, impacting dozens of DAF installations.

In recent years, Congress has included numerous provisions in legislation to enhance installation resilience efforts across the Department of Defense. The DAF, in conjunction with the Office of the Secretary of Defense (OSD), is implementing these provisions. Climate and energy resiliency considerations are being incorporated into Installation Development Plans (IDPs). Last year, we published a Severe Weather and Climate Hazard Screening and Risk Assessment Playbook, which gives installation-level planners a consistent and systematic framework to screen for severe weather and climate hazards and assess current and future risks. We have completed initial assessments at all major installations and will be incorporating results into an Installation Resilience Component Plan for IDPs over the next several years. Additionally, we completed twenty four Installation Energy Plans by the end of CY20 to identify risks and track and adjust requirements to advance energy and water resilience goals. We expect to complete an additional twenty this year.

The DAF is incorporating resiliency directly into MILCON projects as well. All projects are assessed to determine if the planned facility could be impacted by current or future mean sea level fluctuations or if it is located in a 100 year floodplain. We implement mitigation actions to raise the elevation when required by the mission. One mitigation action example from Offutt AFB, addresses future flood concerns. As part of the rebuild of three critical campuses, we are importing approximately 600,000 cubic yards of fill material, or about 40,000 dump trucks, to raise the elevation of the entire site at least three feet above the 100 year floodplain. Additionally, the DAF provides inputs to drive changes to the Unified Facilities Criteria (UFCs) and then applies those evolving building codes to all MILCON projects. Many of these UFCs have been updated recently to specifically incorporate resilience considerations such as sea level rise scenario planning and updated structural engineering criteria to address wind, seismic, and flood threats.

The DAF is also incorporating operational energy efficiency initiatives to mitigate risk to the warfighter, increase lethality, and reduce our climate impact. We are working to implement a number of energy-informed solutions into operations that will increase aircraft range, streamline mission execution, and improve readiness, while also mitigating greenhouse gas emissions.

<u>COVID-19</u>

The COVID-19 pandemic has challenged the DAF to adapt to sustain our global operations. In particular, travel restrictions and social distancing measures affected personnel access at some installations, material production and delivery, and construction design reviews. Access and material production and delivery issues were alleviated as the world came to grips with the pandemic and markets and processes adapted to the new normal. The DAF adapted to design review challenges by utilizing virtual platforms to complete remote design reviews and charrettes, which typically require group gatherings, to prevent design delays and maintain quality reviews. Should any delays arise in the future, the DAF is prepared to work with our Design/Construction Agents and base level contracting professionals to address any Requests for Equitable Adjustments. While no significant requests for delay-driven compensation have arisen yet, contractors may quantify COVID-related costs in the future.

Additionally, the DAF is gathering data on potential footprint reductions resulting from implementation of long-term telework business models. We are looking at operational impacts and more subtle effects like DAF culture. The outcome of this analysis may inform future policy changes.

Winter Storms of 2021

Recent extreme winter storms throughout much of the Midwest and southern United States had a considerable impact on DAF installations. Initial assessments indicate some degree of damage at 28 installations. The DAF continues to assess the damage and will restore facilities to full mission capability.

A majority of the damage was the result of burst water and fire suppression lines due to freezing. Our personnel prepared our installations admirably, but numerous factors, including sustained periods of extreme cold, degraded facilities and infrastructure, and off-base power and water supply issues, led to damage and temporary interruptions. Several installations experienced limited power or water interruptions consistent with interruptions experienced by the local communities. Back-up energy sources and contingency plans, as well as effective coordination

with commercial power and water suppliers, were generally effective in minimizing the length and impact of utility interruptions. In some cases, such as at Offutt AFB, installations were able to use on-base power plants and generators to supply their own power. These efforts were instrumental in helping the utility provider stabilize the power grid and minimize rolling blackouts in the community.

Natural Disaster Recovery Efforts

In 2019 and 2020, Congress appropriated \$3.6 billion for the recovery and rebuild of Tyndall AFB, Florida, from the devastation caused by Hurricane Michael, and Offutt AFB, Nebraska, from the effects of historic flooding. The funding will also enable construction at Joint Base Langley-Eustis, Virginia, to support the relocation of the F-22 Raptor training mission from Tyndall AFB. To date, the DAF has awarded five construction projects for \$72 million. Design efforts continue for the rest of the program. The DAF expects to award an additional \$2.25 billion of construction contracts by the end of 2021.

Through the Natural Disaster Recovery program, the DAF will rebuild these installations in a more efficient and resilient manner. Facilities are being designed and constructed using the latest Department of Defense building codes, or UFCs. In addition, given the extensive damage at Tyndall AFB, the DAF made a policy decision to design beyond the minimum UFC criteria for civil and structural engineering. The minimum design wind speed being used for all new facilities is 165 miles per hour, exceeding the highest wind speed captured during Hurricane Michael, and incorporates best practices from the Florida Building Code's High Velocity Hurricane Zone for Miami-Dade, Broward, and coastal Palm Beach Counties. Facilities are also being designed 14 to 19 feet above today's mean sea level, which incorporates a 7-foot projected sea level rise scenario through the year 2100. Additionally, coastal resiliency is one of the most important aspects to the plan at Tyndall. This partnered approach includes cost-shared investments which combine with DAF FSRM and MILCON investments to attenuate storm energy through natural infrastructure before it reaches built infrastructure. Key partners such as the Defense Advanced Research Projects Agency, Fish and Wildlife Service, Bay County, the Florida Department of Environmental Protection, and the University of Florida are working together as part of OSD's Readiness and Environmental Protection Integration Program on key initiatives. We are exploring several low life-cycle cost Engineering with Nature initiatives to include sand fencing, submerged shoreline stabilization, living shorelines, oyster reefs, and marsh

and seagrass enhancements. At Offutt AFB, we are consolidating facilities to higher ground out of the 100-year floodplain. Where relocation is not possible due to mission requirements, we are raising the finished floor elevation above the floodplain and building in a way to minimize cleanup should flooding occur again.

Taking Care of People

In December 2020, the Chief of Staff of the Air Force, General Charles Q. Brown, released a series of action orders providing guidance to implement his strategic approach, "Accelerate Change or Lose." The first action order focuses on Airmen. If the Service is to ensure it has a quality future force where Airmen see continued service as an attractive career choice, we must consider the environments we provide for these Airmen and their families at DAF installations. Taking care of Airmen, Guardians, and their families is not just about quality of life, it is also about readiness. It is at the forefront of ensuring the DAF can continue to provide critical warfighting capabilities to the Nation. Two programs with direct ties to quality of life are Child Development Centers (CDC) and dormitories.

In early 2020, the DAF established a cross-functional Child Care Capacity Initiative Working Group to address unmet child care needs. This team has prioritized child development and school age care facility projects based on unmet childcare demand, staffing, and building conditions. We issued a Strategic Enterprise Executive Decision memo directing installations to initiate planning actions for 14 projects identified on the prioritized list. The DAF is using the \$11 million in MILCON P&D funds provided in FY20 to initiate designs and posture these projects for future execution. Five of our top priority CDCs – Sheppard AFB-Texas (TX), Joint Base San Antonio (JBSA) – Lackland-TX, JBSA – Fort Sam Houston-TX, Wright Patterson AFB-Ohio, and Royal Air Force (RAF) Lakenheath, in the United Kingdom – will be ready for execution in FY22. The Sheppard AFB CDC is included in the FY22 budget request. The fifth CDC at Royal Air Force Lakenheath in the United Kingdom is required due to the new F-35A mission bed down. CDCs historically have not competed well against other mission-related priorities in the MILCON projects are being postured for future execution. Nine FSRM projects, valued at \$37 million, are in development and will be ready for award in FY22.

The DAF is also committed to ensuring unaccompanied service members are provided quality housing on our dormitory campuses. The Department has re-emphasized the roles and responsibilities of commanders in protecting the health and safety of unaccompanied Airmen and Guardians. Commanders are responsible for enforcing inspection criteria to identify and report conditions requiring immediate and future maintenance, as well as sustaining an adequately resourced maintenance and repair program to effectively address requirements. Funded from the DAF FSRM account, the investment strategy for dormitories focuses on restoration and modernization of these facilities in their existing configurations. This strategy will ensure the Service continues to meet the Department of Defense goal of 90% adequate dormitory rooms for permanent party unaccompanied Airmen and reduce the requirement for replacement construction. This enables the DAF to focus MILCON funds on modern, formal training facilities for newly recruited Airmen, such as the Airman Training Center at JBSA, Lackland, Texas, included in the FY22 budget request.

Space Force

The FY20 NDAA established the United States Space Force (USSF) as the sixth branch of the armed forces. In accordance with Department of Defense direction that the Space Force be established as a lean, agile, mission-focused military Service, the Space Force will rely on the Air Force for infrastructure, logistics, security, medical services, and a host of other support functions. Formal agreements and implementation plans are being finalized to codify all stakeholder roles and responsibilities. From an installation engineering perspective, Air Force civil engineer squadrons will continue to support Space Force installations as they did prior to establishment of the USSF. Air Force Material Command's Air Force Installation and Mission Support Center will provide enterprise level support for all installation and mission support programs and processes. In FY22, the DAF will transfer FSRM, unaccompanied housing, and facilities operations funds to the Space Force for execution. MILCON authorization is expected to be transferred to the Space Force by FY24. The Space Force is in the process of developing a separate governance process, leveraging current Air Force processes, to ensure strategic alignment of investments to Space Force priorities.

FY22 MILCON Program

In FY21, the DAF focused on MILCON program stability to ensure we are postured to award projects in the year of appropriation. Having improved policy to correct these measures in FY21, the DAF expects the future programs to return to a level similar to funding requests from previous years. In FY22, the DAF MILCON request is \$2.38 billion, approximately double the

FY21 enacted amount. This return to previous funding levels will support the DAF's commitment to fulfilling National Defense Strategy requirements and posturing for the future high-end fight.

The FY22 MILCON program supports Combatant Commanders with a focus on the Pacific and European theaters and modernizing the nuclear enterprise. Our request also focuses on P&D to reinforce the Department's MILCON program stability and consistency. Additionally, the MILCON program continues efforts to bed down new weapons systems and seeks to recapitalize facilities that have outlived their useable life or no longer meet mission requirements.

Combatant Commander Infrastructure

The FY22 MILCON program prioritizes Combatant Commander requirements with a particular emphasis on the Pacific and European theaters. Support to Indo-Pacific Command will enhance the United States defensive posture in the region, reassure allies and partners, and increase readiness capabilities. The request includes \$545 million for projects in Alaska, Guam, Japan, and Australia to recapitalize key facilities, disperse resources, and construct operational facilities as well as Pacific focused P&D. The request includes the construction of three warehouses to store pre-positioned Airfield Damage Repair equipment and materials in Guam and Japan, aircraft operations and maintenance facilities in Australia and Japan, munitions storage structures in Guam and Japan, and a runway extension to increase airfield capacity in Alaska.

The DAF remains committed to European Defense Initiative (EDI) efforts to reassure North Atlantic Treaty Organization allies and other European partners of United States commitment to collective security and territorial integrity. In FY22, the DAF requests \$162.4 million for EDI and other European theater projects to include support for the prepositioning of equipment in the United Kingdom, and airfield upgrades in Hungary and Spain. These projects will further improve deterrence efforts in the theater and enable joint and coalition forces to quickly respond to aggressive regional actors. The DAF request also includes support to CCMDs within the United States to include a continued focus on Weapons Generation Facilities and Joint Air Defense Operations which directly supports Strategic Command and Northern Command, respectively.

New Mission Bed Downs

The FY22 budget request also supports the bed down of new weapons systems and missions, with a heavy focus on modernizing the nuclear enterprise. The request includes six projects at Ellsworth AFB, South Dakota, to bed down the first B-21 Raiders and three projects at

Hill AFB, Utah, and Vandenberg AFB, California to support the transition from the Minuteman III intercontinental ballistic missile weapon system to the Ground Based Strategic Deterrent (GBSD). The NDS directs the Department of Defense to build a more lethal force by modernizing key capabilities, the first of which are nuclear forces. Once on-line, these weapons systems will ensure the DAF can effectively supply two thirds of the nation's nuclear triad well into the future.

The DAF is appreciative of the legislative authorities which posture the Ground Based Strategic Deterrent (GBSD) program for success. The FY21 NDAA provided significant flexibility for the Launch Facility/Launch Center conversion under MILCON authorization, authorized \$15 million of MILCON P&D for GBSD, enabled all GBSD construction to be carried out under direction and supervision by the Secretary of the Air Force, and allowed a single prime contractor to plan, design, and construct all GBSD projects. Furthermore, it established authorization expiration in 15 years or until GBSD fielding is complete (whichever is earlier), and allowed grouping of MILCON projects within each missile base and encouraged grouping by squadron. The DAF will continue to inform Congress on the Department's progress during design, construction, and commissioning of GBSD facilities.

The FY22 President's Budget also requests funding for two projects at Royal Air Force Lakenheath to construct operational facilities for the F-35A bed down. Additionally, the request re-integrates two F-35A project at Luke Air Force to provide flight training and planning space and additional maintenance capacity. Lastly, the budget request includes a three-bay depot maintenance hangar at Tinker AFB, Oklahoma to directly support reliable and responsive infrastructure for the KC-46A weapons system.

Existing Mission Recapitalization

The FY22 budget request also seeks \$447.4 million to recapitalize facilities that have outlived their useable life or no longer meet mission requirements. This request includes additional funding for our Basic Military Trainee Recruit Dormitory modernization, to include reinserting Dormitory 7 back into the program at JBSA-Lackland, Texas. The Air Force previously cancelled Dormitory 7 to cover funding disconnects with the other dormitories in the program, but in FY22, the time is right to bring this requirement back into the budget to construct the final dormitory required for bringing new Airmen into the Service. Other recapitalization projects include the Nuclear Command Control and Communications Acquisitions Management Facility at Hanscom AFB, Massachusetts, which provides a critical facility for the Air Force Nuclear Weapons Center,

a crash fire rescue station at Joint Base Andrews, and a gate project at Davis-Monthan AFB, Arizona.

<u>Planning and Design</u>

P&D remains a central focus of the DAF MILCON program to reinforce program stability and consistency. Sufficient P&D enables projects to progress rapidly through design and meet maturity criteria for admissibility into the program, provides more accurate cost estimates, and maximizes opportunity to award projects in the year of appropriation. Without sufficient P&D, the DAF must award designs by design phase, which adds risk associated with costs and timely delivery of design. With the FY22 P&D request of \$229.3 million, the DAF intends to complete remaining design requirements for our FY22 program, fully fund designs for our planned FY23 and FY24 projects, and initiate design for FY25. Our two year budget lock policy outcome is a stable MILCON program allowing us to efficiently use P&D for future projects.

Facilities Sustainment, Restoration, and Modernization (FSRM)

The FSRM and MILCON programs are interdependent. Together, these two funding streams are the foundation of DAF installations. FSRM provides a non-MILCON pathway to repair facilities and infrastructure maximizing their lifespan. The FY22 budget request of \$4.55 billion in FSRM funding is a 20% increase from FY21 enacted levels. The increase shows our deliberate focus on ramping funding toward the I2S recommended floor of 2% of PRV to address degrading infrastructure.

Our I2S drove changes in how we execute the FSRM program by prioritizing projects based on mission risk and timing investments at the optimal point in the asset lifecycle. The centralized FSRM scoring model targets investments at an asset's "sweet spot" in its life cycle rather than at end-of-life failure, which is significantly more expensive. FSRM funding distributed directly to installations (considered decentralized FSRM), empowers Commanders to make the right local investment decisions, including day-to-day maintenance and smaller scale repair and sustainment projects, based on mission requirements and I2S guidance.

In FY22, the DAF will continue to utilize I2S principles to restore the health of our installations by refining business processes and implementing private sector best practices. These include implementing cost management strategies specific to different spending categories, leveraging data to improve the timing of sustainment and recapitalization actions, and establishing standards of services and equipment to achieve economies of scale. In order to maximize the near-

term impact of current funding levels, the DAF will continue to assess mission thread vulnerabilities and prioritize infrastructure repair requirements which directly affect an installation's primary mission.

Housing Construction and Operations and Maintenance

The DAF prioritizes providing safe and healthy homes to our families. The FY22 budget request seeks \$441 million for housing construction, P&D, and operations and maintenance. These funds will support a continued focus on eliminating inadequate housing from the DAF inventory and correcting health and safety deficiencies. The military family housing construction request of \$116 million will fund planning studies and design for future construction projects, renovation of existing homes, and support the restructures of privatized housing projects.

The high cost of construction in the Pacific, specifically on Okinawa, Japan, continues to present challenges where the DAF is the executive agent for more than 7,800 family housing units. The increased cost of construction requires solutions within the DAF family housing construction program to include cancelling projects that are no longer necessary due to European posture changes and using existing resources to achieve full scope on multiple projects. The DAF continues to focus investment in the Okinawa housing inventory to provide adequate housing for all service members and their families residing on the island.

Our military family housing operations and maintenance request of \$325 million will fund efforts to sustain, improve, and modernize our Government-owned inventory of approximately 15,200 family housing units and provide enhanced oversight of over 55,000 privatized homes. The additional \$20 million in Family Housing Support and Management funding provided in FY21 will ensure continued support for the housing needs of Airmen, Guardians, their families, and our Army, Navy and Marine Corps teammates housed in government-owned and privatized inventory.

Environmental Stewardship

The safety and health of our Airmen and Guardians, their families, and our community partners, is a DAF priority. To meet our obligations to protect human health and the environment, the FY22 PB request includes \$302 million in funding for Environmental Restoration activities associated with the cleanup of current installations, including munitions sites, and \$459 million for Environmental Quality programs including environmental compliance, environmental conservation, and pollution prevention. These funds ensure environmental considerations are successfully integrated into the DAF mission. The DAF greatly appreciates Congressional support

for our efforts to address per- and polyfluoroalkyl substances (PFAS) and continue Environmental Restoration Program progress.

Environmental Restoration

The DAF remains focused on completing investigations and establishing remedial actions to reduce risk to human health and the environment in a risk-based, prioritized manner for all substances where DAF actions have impacted the environment. We currently have approximately 13,000 restoration sites at our active and closed installations. Recently, much of our restoration program focus has been on chemicals of emerging concern, most notably, PFAS.

The DAF began using aqueous film-forming foam (AFFF) containing PFAS in 1970. The DAF funds and executes environmental response actions to address its PFAS releases under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). We are committed to following the CERCLA process to address PFAS impacts attributable to DAF activities and continuing to partner in good faith with local communities, state regulatory authorities, federal interagency partners, and Congress to tackle this national issue.

DAF PFAS Strategy

The Environmental Protection Agency (EPA) has established lifetime drinking water Health Advisories (HAs) for two PFAS, perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA). The DAF PFAS strategy focuses first and foremost on assuring no one on or off our installations is drinking water with DAF-related PFOA or PFOS above the EPA HAs, and second on using CERCLA authorities to investigate, define and ultimately remediate groundwater and soil impacted by DAF activities. The DAF also conducts a robust effort to communicate and collaborate with local communities, State and Federal agencies and elected officials at all levels. Recognizing the DoD is only one source of PFAS, we are actively engaged with other government agencies working to identify and address other sources, exposure pathways for humans and the environment, and health effects of PFAS. The DAF framework guiding our response to PFAS issues are Protect Human Health, Communication and Collaboration, and a Whole of Government Approach.

The first objective, Protect Human Health, is the broadest and has the primary budget impact. Within this objective, the DAF is using authorities granted under CERCLA and the Defense Environmental Restoration Program to conduct off-base drinking water testing and response actions related to PFAS. In prioritizing CERCLA environmental response actions, the DAF uses a risk-based decision-making process with protection of drinking water as a top priority. Although the DAF does not program restoration funds by chemical, as of March 2021 it had spent \$685 million identifying, investigating, and responding to PFAS releases, completing drinking water response actions at 33 installations (implementing bottled water, point-of-use filtration, whole-house filtration, municipal water supply hookup), and completing initial PFAS CERCLA site inspections at 38 installations. Our FY22 budget submission includes sufficient funds to complete the remaining site inspections. As of March 2021, the DAF had awarded remedial investigation contracts for 47 total force installations. While the DAF takes quick actions under CERCLA to address drinking water, long-term responses to address groundwater can take potentially decades.

Environmental Quality

The DAF ensures a resilient natural infrastructure and maintains sound environmental stewardship by funding compliance with environmental laws. The environmental compliance program focuses on regulatory compliance for our air, water, and land assets. Examples of compliance efforts include detailed air quality assessments to analyze environmental impacts from DAF activities, protecting our groundwater by enhancing the management of our underground and above ground storage tanks, hazardous waste management and disposal, and ensuring environmental plans and permits are compliant and up-to-date.

Efforts in pollution prevention include maximizing the diversion of solid waste from landfills to reduce the volume and cost of disposal, recycling used oil, fluorescent light bulbs, spent solvents, and supporting our hazardous materials pharmacies to effectively reduce and safely manage the use of hazardous materials. We also continue to protect the health of our Airmen, Guardians, and the environment by making investments to minimize hazardous materials usage and hazardous waste disposal through the demonstration and validation of new technologies.

We remain firmly committed to a robust environmental conservation program. Prior appropriations have allowed the DAF to invest in conservation activities on and around our training ranges that provide direct support to mission readiness. The conservation program in FY22 supports ongoing habitat and species management efforts for 123 threatened and endangered species on 54 DAF installations and provides for continued cooperation and collaboration with other government agencies like the U.S. Fish and Wildlife Service. These partnerships help us to provide effective ecosystem and habitat management, including wildland fire management, which

helps avoid losses in our capability to support the military mission due to the presence of endangered species on our installations. Working collaboratively with the Fish and Wildlife Service in the DoD Recovery and Sustainment Partnership, the DAF enhanced mission operations and increased range access while protecting endangered species by facilitating the down-listing or delisting of six threatened or endangered species over the last two years.

The DAF remains committed to responsible environmental restoration and quality. As trustee for more than 8.3 million acres of land including forests, prairies, deserts, wetlands, and coastal habitats, the DAF understands the important role natural resources play in maintaining our mission capability. To maintain military readiness the DAF needs realistic test and training environments, which themselves are ecosystems. Quite simply, if we do not maintain the ecosystems we need to test and train and clean up the impacts of past mission activities, we will not be able to maintain military readiness.

Installation Energy and Water Resilience

Energy and water are essential resources that often require long, complex, interdependent, and vulnerable logistics tails. The DAF must have reliable power and water to accomplish both operational and training missions. As stated in the DAF Installation Energy Strategic Plan, which was released in January 2021, the overarching vision for the DAF's installation energy and water program is "Mission Assurance through Energy and Water Assurance." This vision is focused on securing the ability to perform our warfighting mission in the face of disruptions to traditional sources, while simultaneously optimizing energy and water availability and productivity through better planning, technology, and process improvements. The DAF is actively pursuing investments in clean energy generation and improvements in energy efficiency as a way to enhance it energy resilience.

When assessing near-and long-term energy and water infrastructure needs and requirements, the DAF emphasizes resilience, or the ability to continue operating in the face of challenges and bounce back from adversity, while carefully considering cost and factoring in the ability to leverage clean sources. From the DAF's perspective, all energy and water projects must improve resilience in some capacity across the spectrum of robustness, resourcefulness, redundancy, response, and recovery. Projects to improve resilience may include initiatives such as microgrids, clean energy generation, or energy conservation efforts.

Installation Energy Resilience

Energy enables DAF missions. The DAF Installation Energy Program focuses on ensuring Air and Space Force installations have the energy required to fight from our critical bases, at all times, no matter the circumstances. The DAF is therefore committed to reducing installation energy vulnerabilities through the incorporation of the five key resilience attributes, the "5Rs," in assessing gaps, prioritizing energy projects, and ensuring enabling system investments are effective in supporting mission needs. The "5Rs" help describe how a system plans for crises (preventative attributes: robustness, redundancy, and resourcefulness) and how the system performs in the event of crises, dependent on risk, events, and time (performance attributes: response and recovery).

One key focus area is to address the growing risk associated with natural hazards or adversarial threats that may result in a denial of service, such as missions being separated from the bulk power grid as well as the increasing potential for long-duration power outages. Using a mission threat perspective, the DAF is working to identify key nodes on and off installations that, in a denial of service scenario, may result in a significant impact on the DAF's ability to deliver key capabilities. This begins with a comprehensive understanding of mission requirements and current system operations. Additionally, through increased situational awareness and more accurate reporting of outages, the DAF is using historical data on past power outages to better understand the causes and impacts of such outages. Through increased investment in, and improved maintenance of, these energy systems, the DAF is striving to decrease the number of outages on installations.

Finally, the DAF has partnered with the Office of the Assistant Secretary of Defense for Sustainment and the Massachusetts Institute of Technology Lincoln Laboratory to develop a comprehensive Energy Resilience Readiness Exercise (ERRE) framework to baseline installation power resilience capabilities and validate vulnerabilities, requirements and system enhancements. ERREs are also referred to "pull-the-plug" and "black start" exercises throughout the defense industry. Thus far in FY21, the DAF has completed one ERRE at Joint Base McGuire-Dix-Lakehurst in New Jersey, bringing the DAF total to three ERREs, and commenced planning for two additional exercises at Eielson and Wright Patterson AFB in CY21. The DAF has created supplemental guidance to provide lessons learned and best practices that enable installations to conduct their own ERREs once an initial exercise has been conducted on site.

Water Resource Management

The DAF is placing a new emphasis on water resilience, recognizing that water is essential to mission sets yet is under increasing pressure. Threats to water availability include aging infrastructure, water scarcity, malicious attacks and natural hazards, changes in climate, rising costs of supply, quality issues, and encroachment. The DAF is taking a risk-based approach to water management and linking water security more directly to mission assurance, with activities focused on increasing transparency into mission needs and readiness, identifying and assessing water risks comprehensively, expanding external stakeholder engagement, and analyzing capability gaps and developing mitigation strategies.

Installation Energy and Water Planning

Installation Energy Plans (IEPs) are a standardized framework for all DAF installations to advance their energy and water goals and ensure resilience to meet critical mission assurance using the "5R" framework. The DAF completed 24 Installation Energy Plans through the end of CY20, and is on track to finalize IEPs for all priority installations and the top 75 percent of energy-consuming installations by the end of FY22. To address the installation energy and water vulnerabilities identified through the IEPs, "pull-the-plug" exercises, and mission thread analyses, the DAF had over 125 resilience initiatives in development across the enterprise at the start of FY21.

Financing Energy and Water Infrastructure

The DAF Installation Energy Program does not have a dedicated budget line; rather, it relies on direct investment, third-party financing, and innovative funding solutions. Direct investment typically comes from the Facility Sustainment, Restoration and Modernization (FSRM) account or the Energy Resilience and Conservation Investment Fund (ERCIP), while third-party financing includes such vehicles as Energy Savings Performance Contracts (ESPCs) and Utility Energy Service Contracts (UESCs). In total, the DAF awarded one ESPC project and modified three contracts totaling \$75 million in CY20.

The DAF is also continuing to explore innovative funding solutions, such as our development of Energy-as-a-Service business model pilots at Hanscom AFB and the Resilient Energy Savings Resource Vault (RESRV), which leverages authorities provided by Congress under Title 10 USC 2912.

Industrial Control Systems Cyber Resilience

Industrial control systems are essential to DAF core missions as they support critical infrastructure that enables mission capabilities across the enterprise. Technological advancements have created more efficient control systems but have also opened up additional avenues for adversaries to attack. In compliance with the National Defense Authorization Act (FY) 2017, we have conducted assessments of critical infrastructure to identify vulnerabilities. These assessments have exposed risks to missions that the DAF was unknowingly accepting and validated the mitigation measures we were already pursuing to increase control systems' cybersecurity and resiliency. The DAF is developing the Strategic Plan for Control Systems to reduce system vulnerabilities and published the Department of the Air Force Instruction 90-1701, *Installation Energy and Water Management*, which requires energy and water control systems become more cyber-secure.

Privatized Housing

The Department of the Air Force, with the support of Congress, has taken substantive actions to address the concerns and make meaningful, enduring changes to our privatized military housing program. The FY20 and FY21 NDAAs identified measures to improve privatized housing. Nearly all of the Air Force's MHPI companies have agreed to implement all eighteen tenant rights at their existing projects, and with few exceptions, we expect these rights to be fully available at Air Force installations with privatized housing by the end of FY21.

Some highlights regarding the improvements the DAF implemented last year include increased program and project oversight. The DAF added 147 authorizations to increase installation-level oversight. These additional personnel are receiving training to conduct change of occupancy inspections consistent with national industry standards. Additionally, the DAF added 60 authorizations to provide Resident Advocates to directly support residents ensuring they have multiple avenues to raise and resolve issues. Resident Advocates report directly to the wing leadership to increase commander awareness of concerns raised by residents. The DAF has also added 11 authorizations for Headquarters DAF, Air Force Civil Engineer Center and our legal staff. Finally, the Department instituted a revised governance structure to review programmatic and systemic issues, best practices, and financial health of the program. The revised governance structure culminates with a council that includes the uniform chain of command and is advised by

military housing office professionals. Overall, the DAF added 218 authorizations and to date has filled all 218 positions to improve oversight, quality assurance, and advocacy at all installations.

The DAF also approved a revised performance incentive fee (PIF) framework to increase both the commander and resident voice in assessing earned PIFs. The new performance incentive fees will improve tracking and reporting of maintenance operations at each project. The DAF is in the process of re-negotiating the PIF framework with project owners, reaching agreement with two of the nine project owners that have a PIF as part of their agreements. As part of the DAF's plan to increase transparency and accountability, all the project owners implemented automated work order systems, allowing residents to submit electronic work orders, schedule repairs, and provide satisfaction feedback. Lastly, the DAF centrally contracted for the annual tenant satisfaction survey, coordinating with the Army and Navy to ensure a consistent survey DoD-wide as well as issuing the survey to collect resident input from both privatized and government owned housing.

While we have made progress on compliance and oversight, there are some projects that are not financially healthy. We are planning to restructure several under-performing projects to ensure long-term sustainment. There is still more work to accomplish to ensure quality and safe homes for our Airmen, Guardians and their families. Therefore, the DAF continues to remain focused on improved oversight, long-term project health, and sustainment of the housing inventory to provide military families access to safe, quality, affordable, and well-maintained housing communities where they choose to live.

Base Realignment and Closure (BRAC)

The FY22 PB request includes \$101 million for the BRAC cleanup program to fund environmental restoration and property transfer activities at 35 former DAF installations closed through prior BRAC initiatives. Our BRAC cleanup program focuses on protecting human health and the environment, projects that transfer acreage and achieve beneficial reuse of property, and investigations and response actions associated with PFOS and PFOA. Through the BRAC process the DAF has closed 40 installations and sites and transferred more than 98% of the property back to communities for beneficial use, producing \$2.9 billion in annual savings. Property transfer is complete for 34 former installations, and we expect to complete transfer of fewer than 2,000 acres at the remaining six former installations by 2027. The DAF greatly appreciates Congressional support for our efforts to address PFOS and PFOA and continue the cleanup and transfer of BRAC properties.

Operational Energy

As a critical enabler to our global mission, operational energy (aviation fuel and energy to power aircraft) comprised over 82% of the \$4.6 billion Air Force energy bill in 2020. To remain ahead of our adversaries in a complex and ever-changing battlespace, the DAF continues to develop a more agile and optimized approach to powering our aircraft and providing Airmen with fuel when and where they need it. In FY22, the budget provides \$49 million in funding for the research, development, acquisition, and operation of modern technologies, data analysis, and innovative process improvements that will enhance our combat capability, mitigate operational risk to the warfighter, and work to reduce our climate impact.

Optimal Operations Planning and Data Collection

The DAF is improving enterprise-wide fuel use data collection and conducting analyses to identify areas where existing missions can be performed more effectively with fewer resources. We work with stakeholders across the DAF and DOD to implement efficiency best practices, support modernized information systems and software applications, and optimize mission planning and execution to maximize combat capability.

Our real-time data analysis capabilities have facilitated greater visibility into Air Force fuel use and have uncovered numerous opportunities to enhance operations through the efficient application of resources. For example, our analysis of C-17, KC-135, and B-52 data models correlates precision fuel planning (optimized fuel loads specific to each mission) with reduced maintenance costs and improvements in readiness metrics such as aircraft availability. Data analysis also allows us to assess the effects of energy optimization on combat capability in warfighting scenarios and demonstrates more efficient air refueling not only decreases fuel demand and sortie requirements, but enables greater fuel offload, effectively doubling the efficiency gain.

Through 21st century tools and software, the DAF has established a pipeline to record and collect flight and fuel use data from multiple sources, enabling us to work with stakeholders across platforms and datasets. The collaborative environment allows us to better analyze operations, optimize aircraft fuel and load planning, and identify efficiency best practices to maximize aircraft reach and readiness. The recently developed software application "Magellan", a long-range

allocation and scheduling tool, now serves as Air Mobility Command's (AMC) system of record for the Readiness Driven Allocation Process. The tool provides a single source and secure collaborative platform for the allocation of global mobility assets at AMC, optimizing processes and increasing the combat and training effectiveness of each aircraft.

The DAF anticipates the active fielding of an auto-planning capability within the tanker planning tool Jigsaw, to further optimize resource allocation and improve asset availability for the Combined Air Operations Center at Al Udeid Air Base, Qatar. Testing indicates the supplementary feature will improve the fuel efficiency of tanker plans by an additional 10 percent from Jigsaw's baseline - the equivalent of removing 10 tankers from the average Air Tasking Order, which would enable crew reallocation and save approximately 400K gallons of fuel per week.

The live, collaborative scheduling platform Puckboard is available to service members around the globe, supporting immediate forecasting decisions. The tool streamlines the aircrew scheduling process through secure remote access and will incorporate machine learning to automate and optimize a previously manual intensive process.

The DAF identified cargo load planning to be a recurring problem that hinders optimization of global airlift missions. We worked with stakeholders at Air Mobility Command and Air Force Institute of Technology to identify elements of cargo planning that could be improved across the Air Force. With optimized cargo load plans, comes more efficient flight operations, and the possibility to decrease fuel use by maximizing loads using fewer aircraft.

Additionally, the DAF is creating an incentive for planners and operators to use fuel more efficiently. We created the Mission Execution Excellence Program (MEEP) to promote a DAF culture of energy-awareness by incentivizing energy-optimized best practices, often utilized in the commercial aviation sector. This competitive, voluntary pilot program will encourage Airmen to apply fuel efficiency processes and behaviors during their day-to-day operations to save the DAF millions of dollars per year in unnecessary aviation fuel costs. Additionally, the decreased fuel use has a secondary benefit of avoiding an estimated 267 thousand metric tons of greenhouse gases per year from entering the climate. Future savings will be reinvested in tools and programs that enable efficient and resilient operations.

Finally, under the authority provided by Congress in Title 10 U.S.C. 2912, the Air Force is implementing the Operational Energy Savings Account (OESA) program to further incentivize energy-aware behavior and processes. By documenting fuel savings from previous operational

energy initiatives, OESA allows those funds to be re-invested in other optimization efforts making it a self-sustaining program.

Weapon System Sustainment

The DAF depends on the readiness of our weapon systems to maintain global reach and power. Through partnerships with the aviation and commercial industries, we identify innovative solutions to modernize legacy aircraft and weapon systems while maintaining our lethality. We research and test 21st century technologies utilized by commercial airlines, such as infrared imaging, laser scanning methods, engine foam washing, and advanced manufacturing techniques for the cleaning, inspection, rework, and coating of engine compressor blades to determine whether these innovations can be applied to the DAF to optimize legacy engine performance.

Fuel Logistics and Alternative Fuels

The Air Force Operational Energy Office, the Air Force Petroleum Office, and the Air Force Research Laboratory (AFRL) continue to monitor and study advances in renewable and alternative fuels to better understand their benefits and how they can potentially reduce the DAF fuel logistics footprint. Our research and analysis of conventional and alternative fuel certification processes, fuel additives, fuel transfer equipment, and fuel storage capacity, allows us to better identify logistical gaps and propose resiliency improvements to the jet fuel supply chain in energy-constrained environments, mitigating risk to the warfighter.

Energy-Informed Wargaming

We support the development and execution of DAF and joint-service wargames to analyze the jet fuel supply network in an energy-constrained environment and reduce operational risk to joint logistics. Through modeling and simulation tools, we increased our awareness of future energy requirements and the potential for fuel supply gaps, disruptions, and adversarial threats.

The results of the Air Force's Global Engagement and Long Duration Logistics Wargames, as well as the Joint Forces Energy Wargame, highlighted the criticality of energy distribution infrastructure and the necessity for energy planning across all phases of an operation. We continue to develop methods to analyze our strategic energy posture and the unique challenges in the Western Pacific and European theaters to inform infrastructure and capability investments.

Acquisitions and Capability Development

The DAF actively works to test, develop and field modern aerodynamic technologies on our legacy aircraft to reduce Department fuel costs. C-17 Microvanes, small fins placed on the aft

fuselage of the aircraft to streamline airflow, reduce drag by 1 percent, saving roughly 10 million dollars per year in fuel costs. Additionally, simply adjusting the static orientation of windshield wiper blades on the KC-135 from horizontal to vertical is expected to save approximately 7 million dollars per year. Other technologies present opportunities to reap fuel savings and maximize tax-dollar utility.

The DAF is leveraging big data analytics to identify and remedy anomalies in rigging of aircraft flight control surfaces. When poorly rigged, the moveable surface structures will cause additional drag on an aircraft, leading to unnecessary fuel burn. Adjustments to movable flight controls, engine controls, flight deck controls, and retractable landing gear component parts have been shown to significantly reduce drag and increase aircraft performance in commercial applications. Improvements to the rigging of aircraft is expected to result in fuel savings of 23 million gallons.

Finally, the DAF guides acquisition policy to address operational energy requirements associated with new and major modification programs through the Energy Key Performance Parameter and Energy Supportability Analysis. We work closely with AFRL to push the technology envelope and help advance key disruptive technologies to maximize operational energy efficacy and outpace our competitors.

Conclusion

The DAF's FY22 budget request supports the President's Interim National Security Strategic Guidance and lays out a plan to modernize our military capabilities while taking care of our Airmen, Guardians, and families. It keeps us on the path toward a successful future posture. The I2S continues to guide MILCON and FSRM budget decisions and business practices as we endeavor to deliver ready, resilient installations as cost effectively as possible. The MILCON portion of the FY22 request prioritizes nuclear enterprise modernization and supports Combatant Commanders, with particular focus on the European and Pacific theaters. The housing request provides the resources needed to sustain and improve the DAF's inventory of government-owned homes and provide oversight of privatized housing project owners. The Department remains committed to overcoming challenges affecting this portfolio and delivering effective, efficient installation engineering services. The FY22 President's Budget request ensures that our Airmen, Guardians, and installations are ready to defend American interests now and in the future.