

# ***United States Air Force Reserve***

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*Integrity - Service - Excellence*

## **Air Force Reserve Facility Update Briefing**



**HQ AFRC/A4C  
Civil Engineer Division  
15 Jan 2020**

**U.S. AIR FORCE**

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- **AFRC Overview**
- **AF Facility Infrastructure Investment Strategy (I2S)**
- **MILCON**
- **Facility Sustainment, Restoration & Modernization (FSRM)**
- **Installation Operations**
- **Environmental Programs**
- **Legislative Language / New Reporting Requirements**
- **Points of Contact**



# ***AFRC Overview***

## ***Mission & Vision Statements***

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### **Air Force Reserve**

#### **MISSION**

**Provide Combat-Ready Forces to Fly ,Fight and Win**

#### **VISION**

**Reserve Citizen Airman – an agile, combat ready force answering our nation's call...always there!**

### **Logistics, Engineering & Force Protection**

#### **MISSION**

**Deliver basing and logistics capabilities  
to fight and win in air, space, and cyberspace**

#### **VISION**

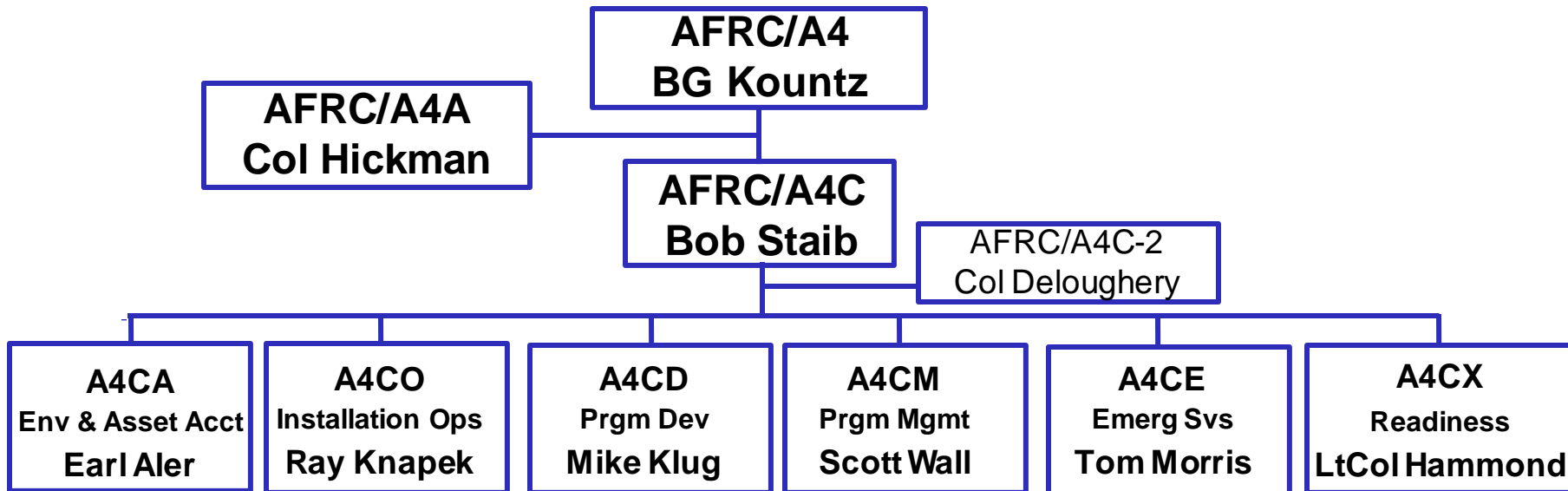
**One agile team of Logisticians, Engineers and Defenders  
integral to the combat ready force**



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# AFRC Overview

## Civil Engineer Division



### Manage AFRC Asset Portfolio

- Real Property
- Environmental Svcs
- Asset Mgmt Plans
- Infrastructure Plans

### Maintain AFRC Infrastructure

- Engineering Expertise
- Sustainment Mgmt
- Energy / Utilities
- CE Service Contracts
- Base Maintenance Contracts

### Plan & Program Facility Projs

- MILCON/P-341 & O&M Prgmg
- Community Planning
- Strategic Basing
- Site Surveys & SATAFs
- FOCUS

### Design & Exec Facility Projs

- MILCON/P-341 & O&M Design
- MILCON/P-341 & O&M Construction Mgmt

### Manage Emerg Services

- Fire Emerg Svcs
- EOD
- Emergency Mgmt & CBRN

### Organize, Train & Equip CE Forces

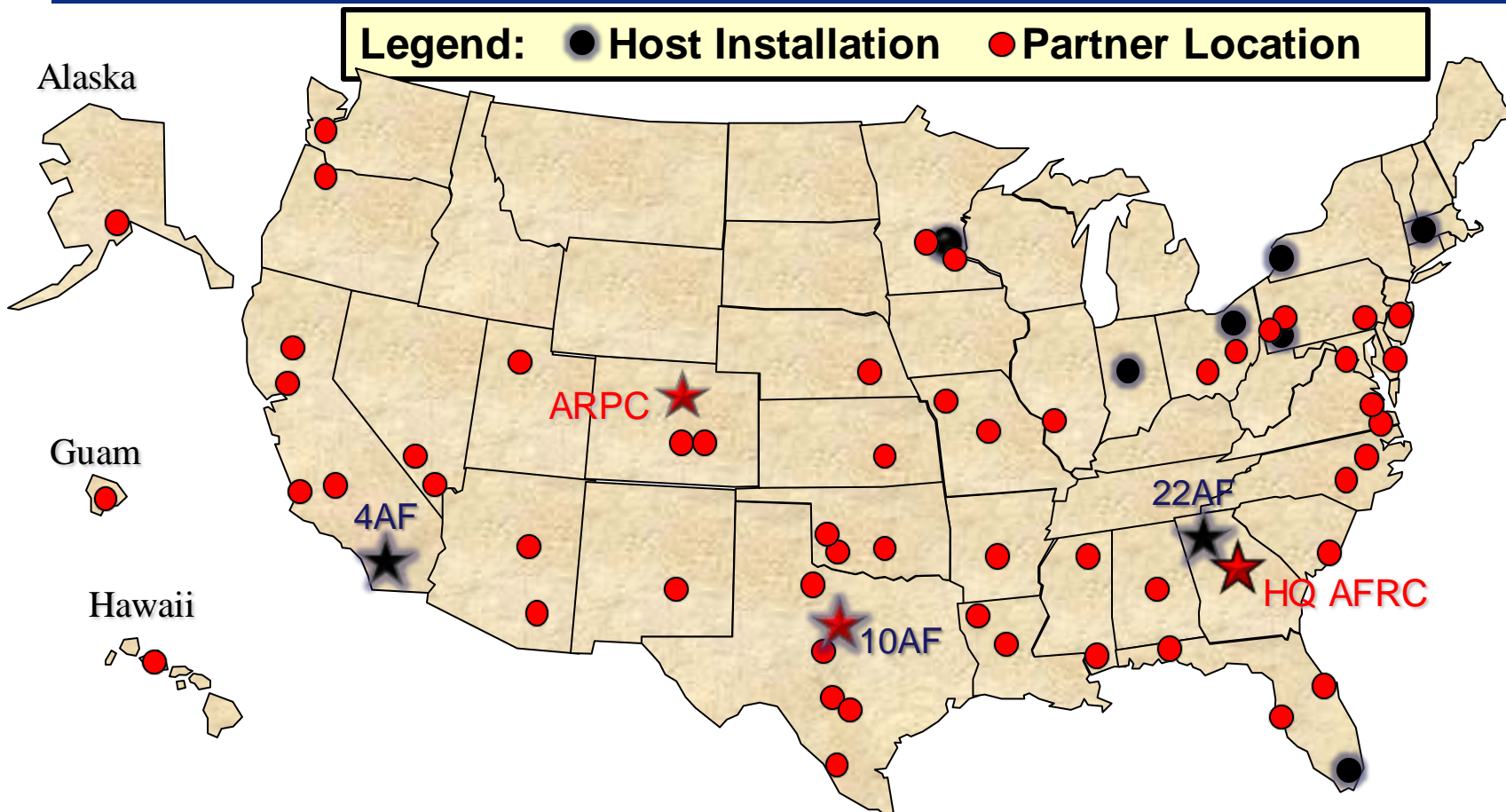
- CE Force Posture & Skills Training
- RED HORSE
- Prime BEEF

**AFRC CE Enterprise: 4,052 TRs, 128 ARTs, 88 AGRs, 719 Civ, 423 IMAs**



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# Engineer Responsibilities AFRC Footprint



**9 Host installations – 57 Partner Locations/Ranges**

**33 Flying Wings, 12 Flying Groups, 1 Space Wing  
Over 70K Citizen Airmen**

**\$7.25B Plant Replacement Value, 21K Acres, ~3K Facilities**



# AFRC Overview

## Scope of Responsibility

### AFRC/A4 Mission Scope

- Responsible for policy, budget and oversight
  - Aircraft maintenance
  - Logistics, supply, aerial port, transportation, munitions
  - Civil Engineering
  - Security Forces
- 33,000 personnel
- Supports >300 aircraft
- \$2.2 billion annual operating budget

### Facility Inventory

- Number of Locations
  - 9 Host
  - 53 Partner locations
  - 4 Ranges
- Acreage = 21K\*
- Total Facilities = 2,741 (1,199 Blgs)\*\*
- Plant Replacement Value = \$7.25B\*\*
- Facility area: 13.3MSF\*\*
- Average Facility Age: 33.4 years

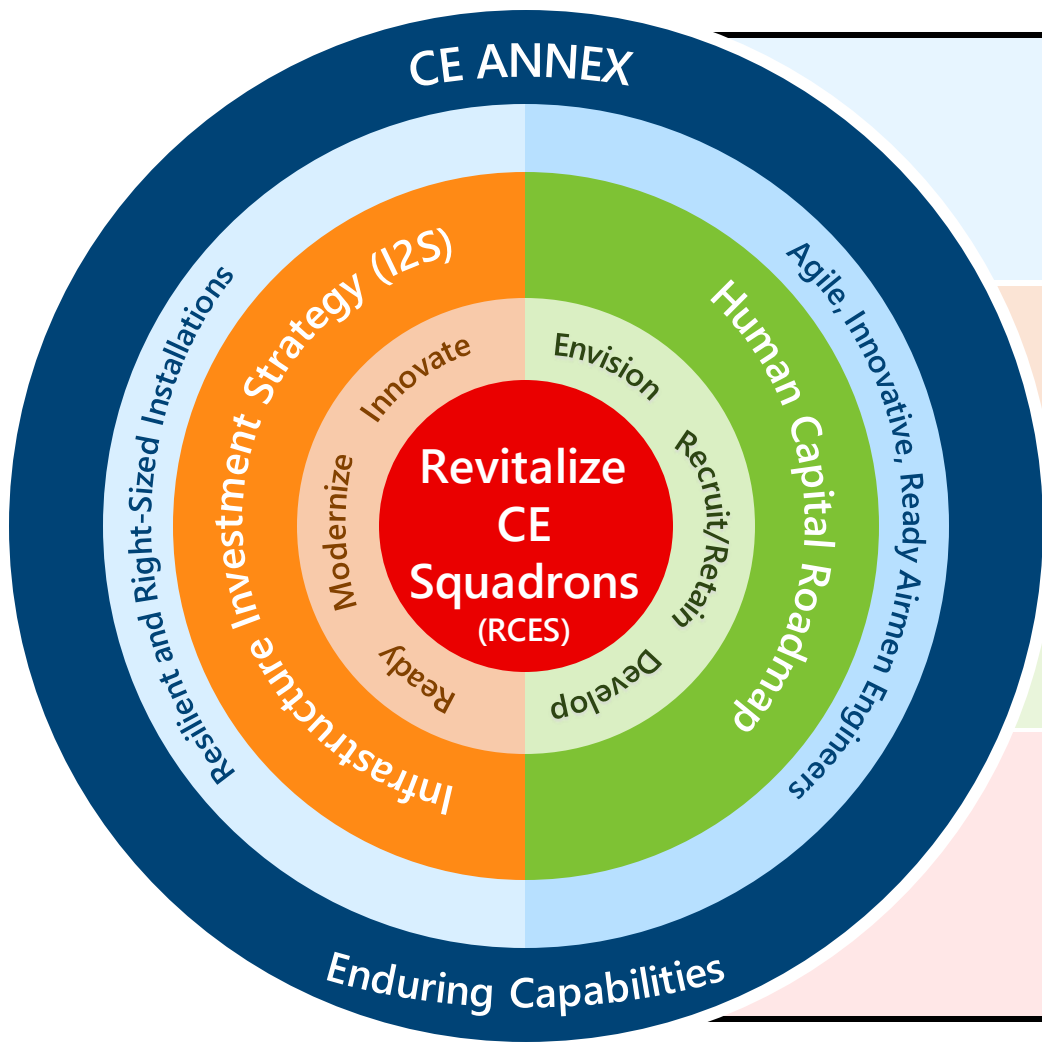
\* Host Only

\*\* Host + Partner locations



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# AF Strategy CE Strategic Alignment



**CE Annex to the Basing & Logistics Flight Plan**  
 Describes enduring Air Force Civil Engineer capabilities and outlines how the CE Enterprise enables the Air Force core missions by providing ready engineers, resilient power projection platforms, and an agile and innovative environment to develop and empower Airmen.

**Infrastructure Investment Strategy**  
 Describes the investments and actions required to restore readiness to our power projection platforms, modernize our infrastructure, and drive innovation in installation management.

**Human Capital Roadmap**  
 Synergizes the diverse human capital initiatives required to carry out the I2S and revitalize CE squadrons, while driving towards the enduring CE capabilities described in the CE Annex.

**Revitalize CE Squadrons Initiative**  
 Identifies areas of improvement that would close current gaps in squadron capabilities and prioritizes investments of greatest immediate benefit to what CSAF would call "the beating heart" of our CE community...foundational to providing CE enduring capabilities and an imperative to achieving the I2S goals.

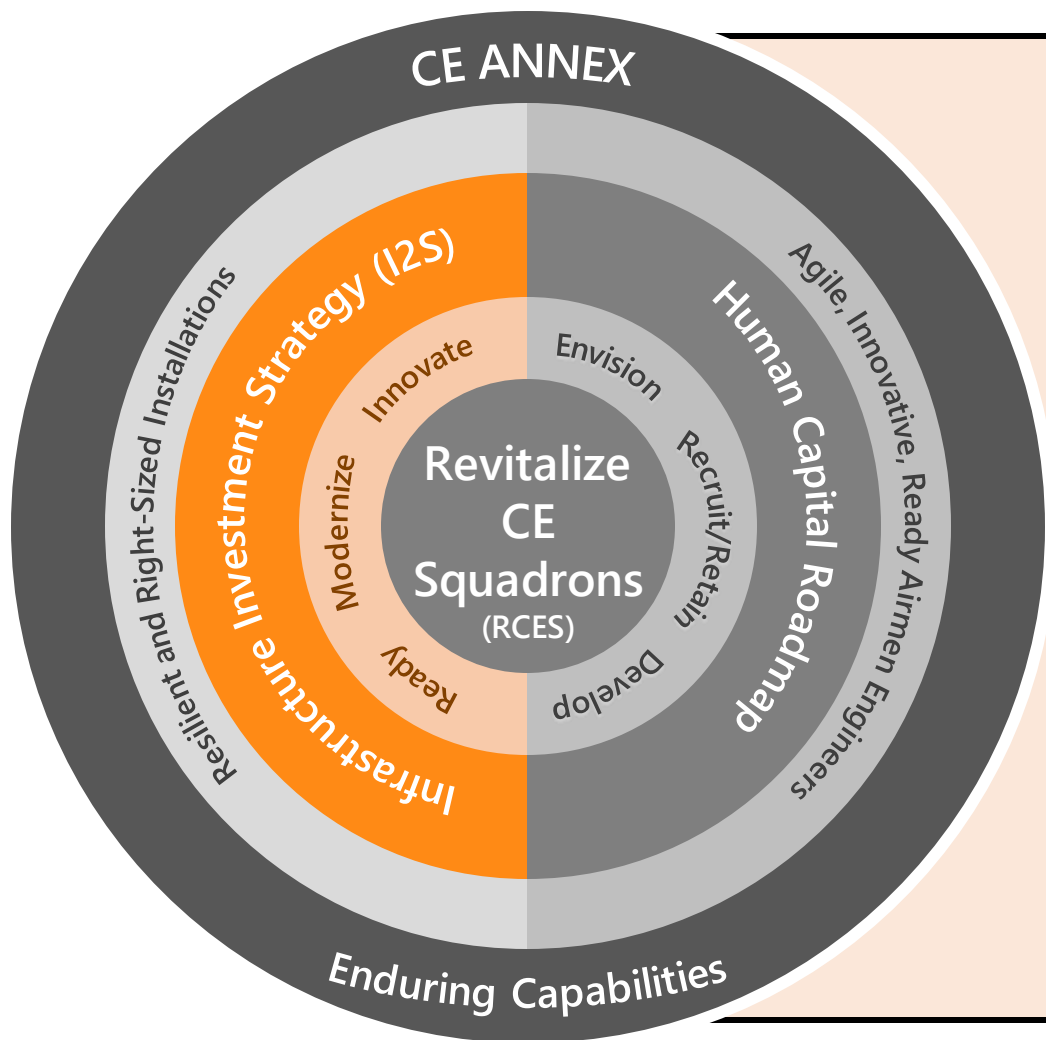
**AFRC Adaptively Flight Following RegAF Lead**



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# AF Strategy

## Infrastructure Investment Strategy (I2S)



**End State:** Adaptive, resilient, right-sized and fiscally sustainable infrastructure to assure combat readiness, lethality, and Airmen resilience.

### Lines of Effort:

- **Restore Readiness to Power Projection Platforms**
  - Ensure Airbase Resiliency
  - Prioritize Repair of Mission-Critical Infrastructure
  - Enhance Strategic Basing Posture
  - Strengthen Installation Planning
- **Cost Effective Modernization of Infrastructure**
  - Pursue Proactive Infrastructure Investment
  - Implement Standard Designs
  - Improve (Front-End) Acquisition and Programming
- **Drive Innovation in Installation Management**
  - Employ Partnerships and Third-Party Finance
  - Utilize Facilities Management Technologies
  - Exploit Category Management
  - Leverage New Authorities

**Moving From “Worst First” to “Risk Based” Facility Investments**





# *AFRC Overview*

## *Facility Investment Strategy*

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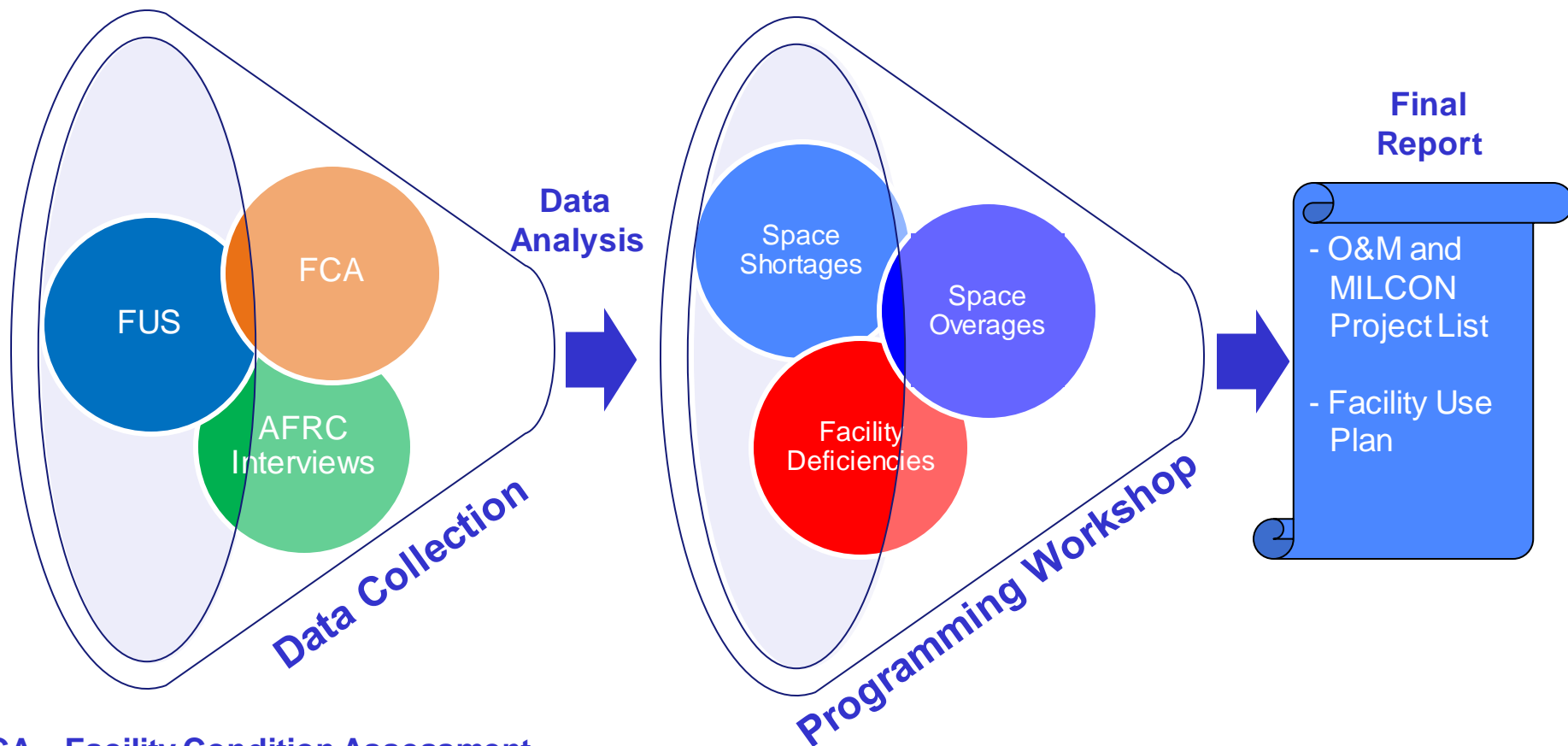
- **FOCUS** (Facilities Operational Capability & Use Survey):
  - Provides ground truth visibility and detailed assessment of facility and space utilization
  - Independent “boots-on-ground” validation of mission impacts
  - Sets course for future facility planning and programming
- **Consider Mission Impact & Facility Condition**
- **We are right-sizing our installations...**
  - Greater reliance on O&M FSRM funds
  - Using consolidation and renovations to optimize footprint



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# AFRC Overview

## FOCUS: Program Process



FCA – Facility Condition Assessment  
FUS – Facility Use Survey (actual occupancy)  
Interviews – Facility Space Authorization

**Delivering sustainable, defensible, repeatable facility solutions**



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# Program Development FOCUS: 6-year Cycle

FY19	FY20	FY21	FY22	FY23	FY24
Barksdale	Davis-Mont	Beale	Luke	Andrews	Dobbins
Charleston	Grissom	Hill	NAS JRB Ft Worth	Dover	Duke / Eglin / Hurlburt
McConnell	McGuire	Keesler	Nellis / Creech	March	Homestead
Peterson	Min-St Paul	Lackland	Patrick	Maxwell	MacDill
Scott	Tinker	Niagara	Seymour Johnson	Portland	McChord
Youngstown	Travis	Pittsburgh	Wright Patterson	Westover	Whiteman
Hickam					
	Moody				

- Adjustments can be made based on Wing requests
- Deploy “mini-FOCUS” in-house teams to small tenants (Hickam, Moody)



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# ***AFRC Overview***

## ***FY 19 Accomplishments***

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- **3rd largest MILCON program in AFRC history!**
  - FY17: 6 projects, \$188.95M
  - FY18: 9 projects, \$137.6M
  - FY19: 7 projects, \$122.86M
  
- **Four major weapon system beddowns in progress**
  - KC-46A @ Seymour-Johnson AFB, SC
  - C-17s @ Pittsburgh ARS, PA
  - KC-135s @ Niagara Falls ARS, NY
  - F-35A @ NAS JRB Fort Worth, Texas
  
- **Robust FSRM program**
  - FY19: 194 projects, \$142M
  - 1.5 times PB; ~2% of PRV
  
- **Partner w/ Louisville District Army Corps of Engineers**

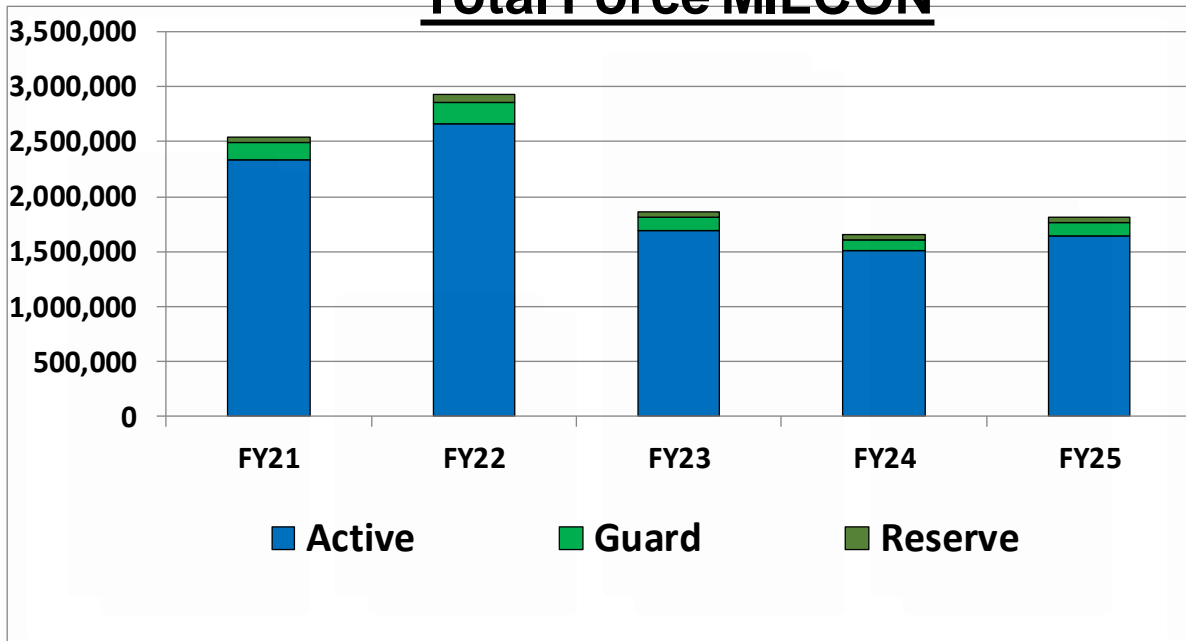
***Total Recap Investment = 3.6% PRV (includes CM MILCON & FSRM)***



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# MILCON FY21 POM Position

## Total Force MILCON



**AFRC MILCON TOA across FYDP = \$251.2M**

Projects = 196.1M

P&D = \$19.4M

UMMC = \$35.7M

ASSESSMENT

### FY 21

Active	91.9%
Guard	6.0%
Reserve	2.1%

### FY 22

Active	91.1%
Guard	6.6%
Reserve	2.3%

### FY 23

Active	90.9%
Guard	6.7%
Reserve	2.4%

### FY 24

Active	91.3%
Guard	6.4%
Reserve	2.3%

### FY 25

Active	90.7%
Guard	6.9%
Reserve	2.4%

### Countermeasure

- Ensure HAF committed to ARC equity in each year of FYDP

### Details

**Objective:** Recapitalize AF facilities to meet critical mission requirements

**Measures:** Program MILCON, P&D, and UMMC funding; Target equity 2.7%

**Data Source:** FY21 PB POM position / ABIDES

**GOAL: AFR minimum equity at 2.7% MILCON TOA**



# MILCON Program Funding

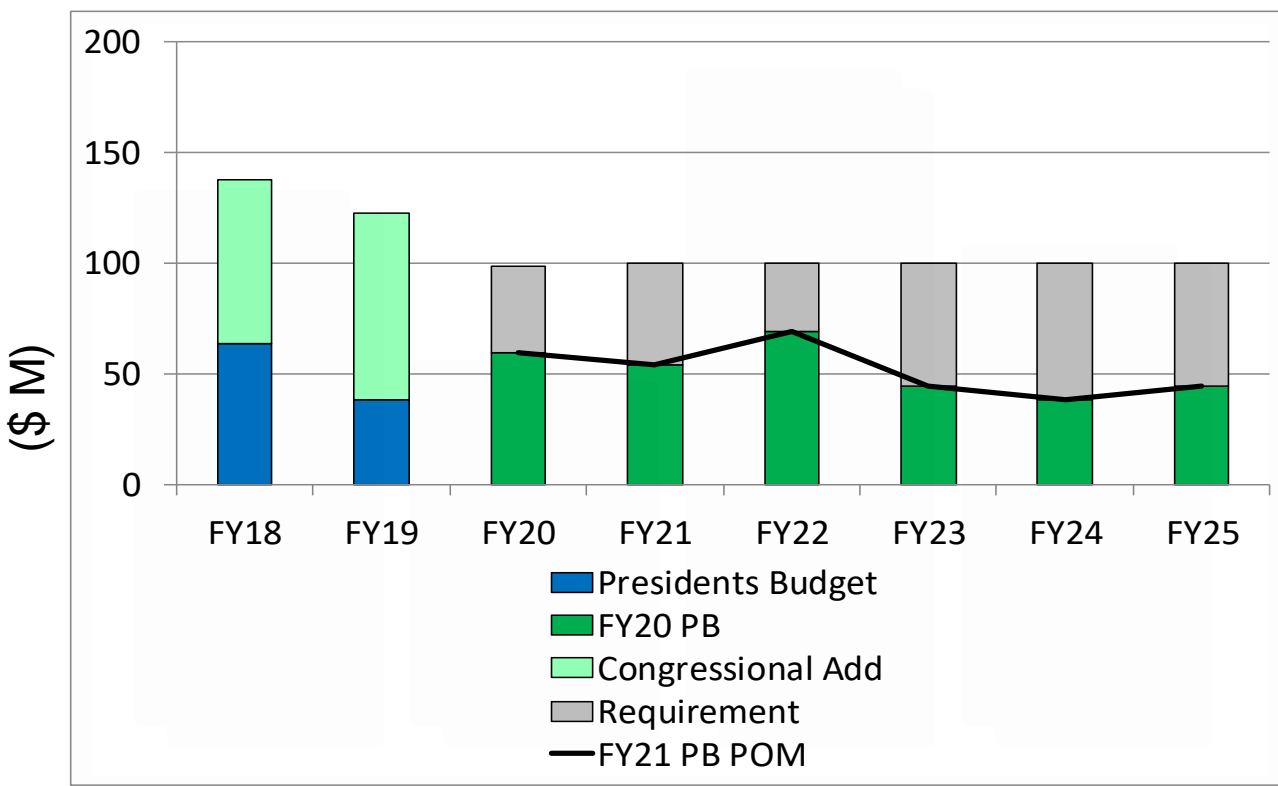
## Analysis

- Ave MILCON funding past 20 yrs = \$61M/yr
- FY18 – Congressional Adds = \$74.1M; 3 Projs plus P&D and UMMC
- FY19 – Congressional Adds = \$84.8M; 4 Projs
- FY20 – Congressional adds TBD
- FY21 - F-35A New mission (\$37.2M)
- HAF committed to ARC equity in each year of FYDP

ASSESSMENT

## Countermeasure

- Ensure min equity 2.7% of TOA
- Ensure priorities reflected in FYDP project list



All numbers are programmed amounts and include P&D and P341 funds

### Details

**Objective:** Recapitalize AFRC facilities to meet critical mission requirements

**Measures:** Program regular, P&D, and UMMC funding vs. \$100M requirement to buy down \$890M backlog, ensure minimum of 2% PRV (recap MILCON+FSRM)

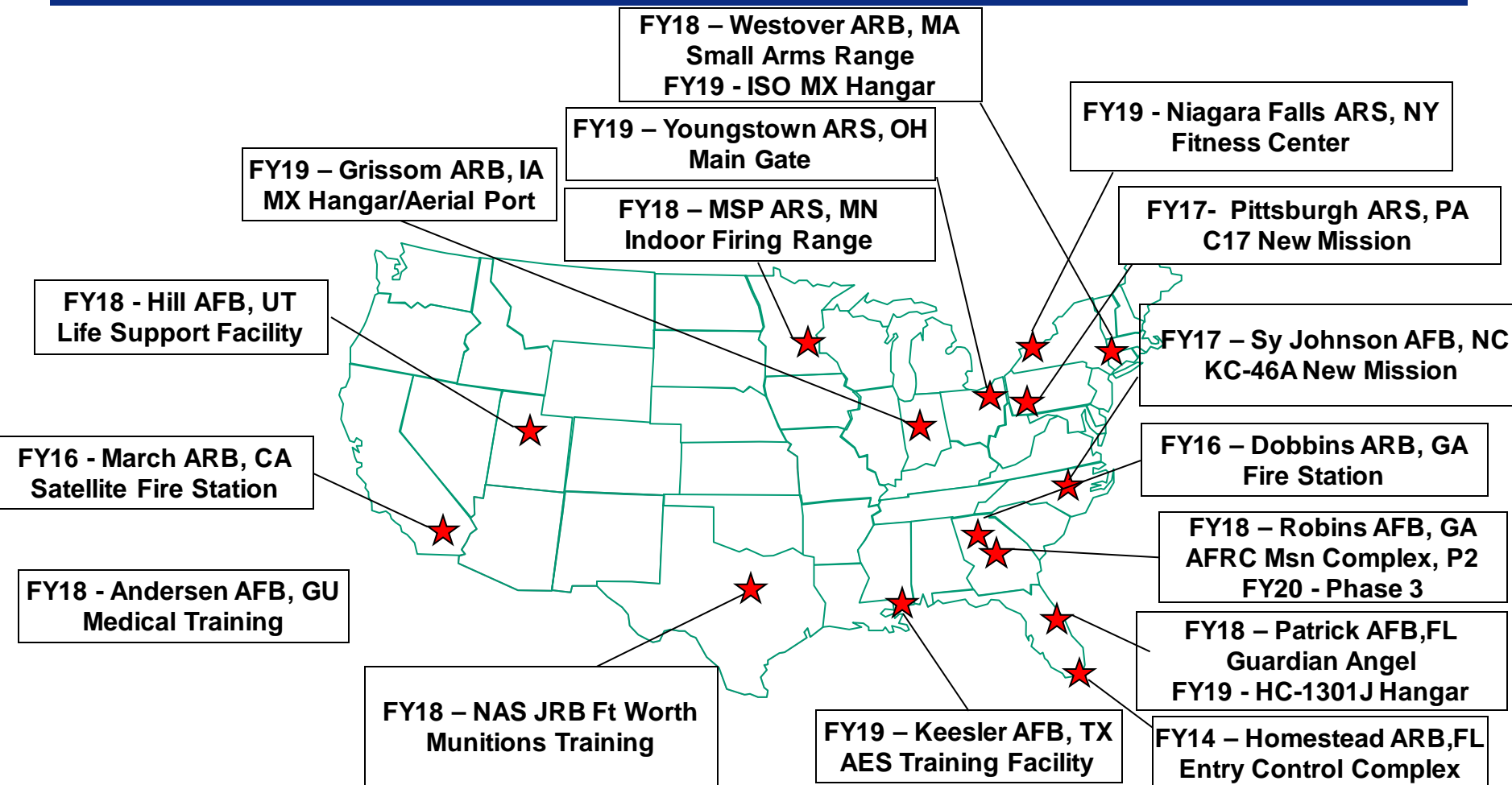
**Data Source:** Execution, FY18-20 PB, FY21 PB POM



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# MILCON

## Projects Under Construction



**2019 – 2808 Project Deferrals**  
 2 FY18 projects : Sy Johnson add/alter Storage (\$6.4M) and JBPH Hickam Consolidated Training (\$5.5M)



## FY19-21 Current Program

FY (XX)	Base	State	Title
19	Grissom ARB	IN	Add/Alter Aircraft Maintenance Hangar
19	Niagara Falls IAP	NY	Physical Fitness Center
19	Keesler	MS	Aeromedical Staging Squadron Facility
19	Patrick	FL	HC-130J MX Hangar
19	Grissom ARB	IN	Aerial Port Facility
19	Youngstown	OH	Relocate Main Gate
19	Westover ARB	MA	Regional ISO MX Hangar
20	Robins	GA	Consolidated Mission Complex Phase 3
21	Fort Worth	TX	F-35A Simulator Facility
21	Fort Worth	TX	F-35A Squadron Operations/AMU

\* Unspecified Minor Military Construction \$2M to \$6M





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# MILCON FY22-25 Projection

FY (XX)	Base	State	Title
22	Niagara Falls IAP	NY	Main Gate
22	Patrick	FL	Simulator C-130J
22	Homestead ARB	FL	Corrosion Control Facility & Wash Rack
22	Minneapolis-St Paul IAP	MN	Aerial Port Facility
22	JB Andrews	MD	AES Training Admin Facility
23	Beale	CA	940 ARW SQ OPS & AMU Complex
24	Grissom ARB	IN	Logistics Readiness Complex
24	Minneapolis-St Paul IAP	MN	Mission Support Group Facility
25	Dobbins ARB	GA	94 LRS Facility

\*\* Green Projects indicate FY20 UPL projections

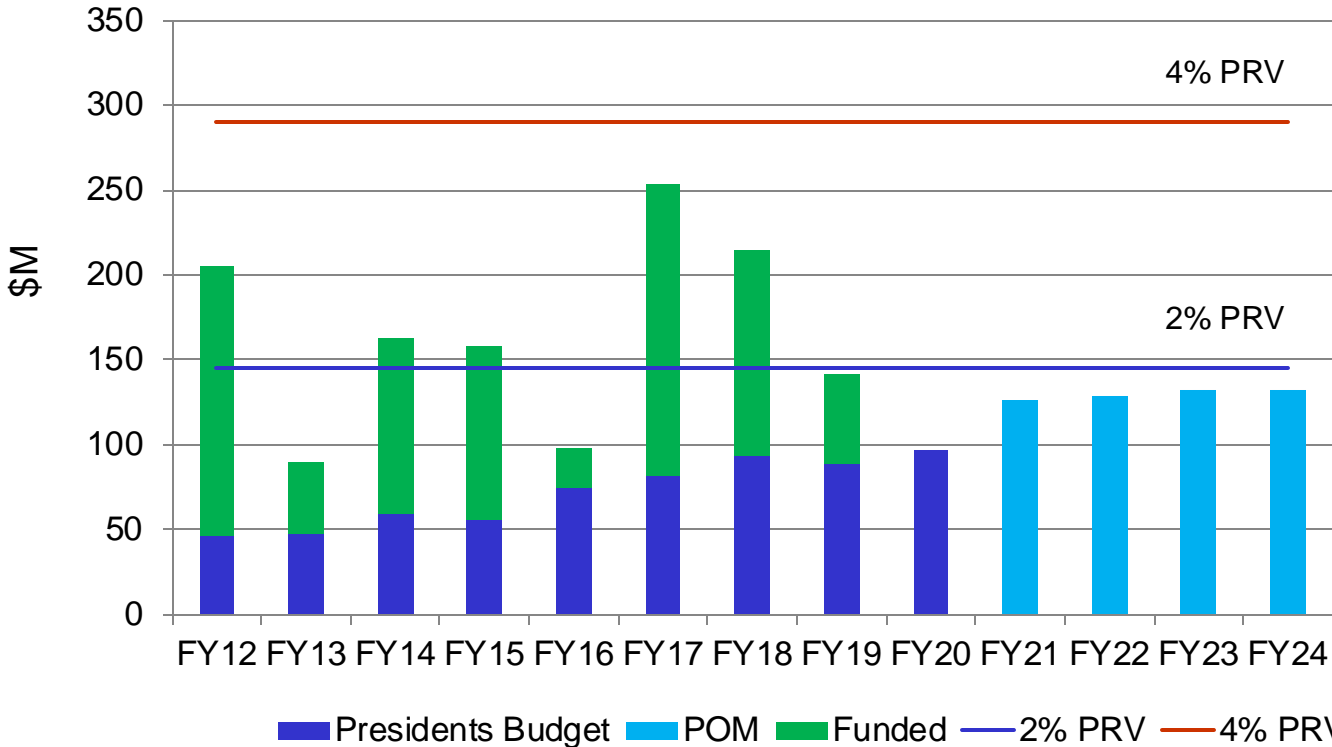


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# FSRM

## Program Funding

Great Teamwork! CE, FM, CONS, CoE, JA



### Analysis

- FY19 PB: \$88M
- \$300M FY19 FSRM IPL approved; executed \$142.0M
- 6 yr obs avg: \$171M/yr
- Execution goal between 2%-4%PRV (\$144-\$288M)
- Program position below requirement
- Buy down \$1B O&M FOCUS-validated backlog
- Budget constraints drive IPL importance & discipline

ASSESSMENT

### Countermeasure

- Target mission impacting facilities w/ condition degradation
- Awarded new IDIQ contracts to enhance execution options

### Details

**Objective:** Recapitalize AFRC facilities to meet critical mission requirements

**Measures:** Program funding vs. 2%-4% PRV (\$144-\$288M/yr) to maintain facilities

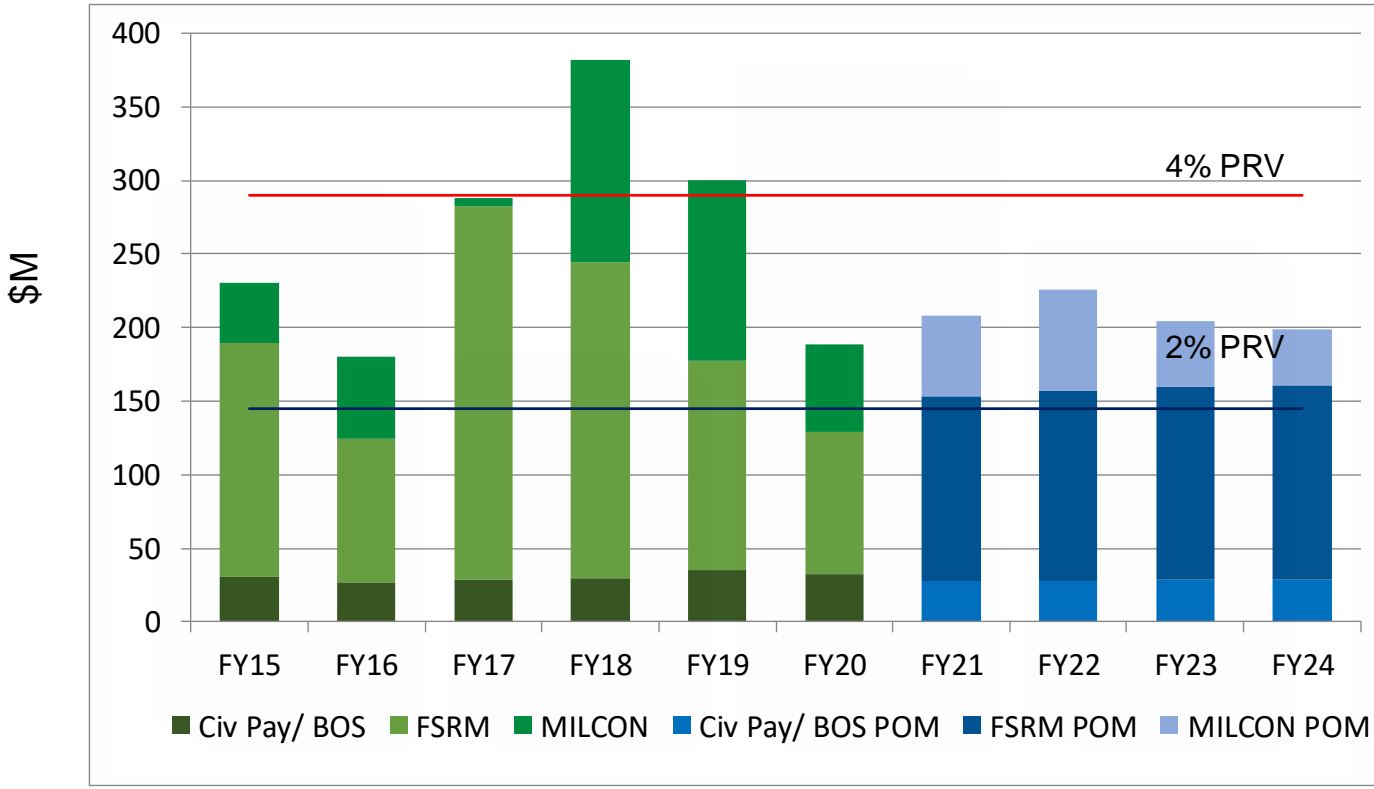
**Data Source:** Execution, FY20 PB, POM

**Investing 2-4% of PRV - Keep Good Facilities Good**



# Facility Investments Recap Program Funding

Great Teamwork! CE, FM, CONS, CoE, JA



ASSESSMENT

## Analysis

- FY18 FSRM \$214.7M
- FY19 Facility Investment
  - FSRM \$142.0M
  - CM MILCON \$122.8M
  - Recap investment 3.6% PRV
- FY20 MILCON \$59.7M
- FY21 MILCON \$54.4M

## Countermeasure

- Target mission impacting facilities w/ condition degradation
- Execution goals
  - Minimum 2% PRV,
  - Target ave 4%PRV
- Buy down \$1.4B O&M FOCUS-backlog

**Details**  
**Objective:** Recapitalize AFRC facilities to meet critical mission requirements  
**Measures:** Program funding vs. 2%-4% PRV (\$144-\$288M/yr) to maintain facilities  
**Data Source:** Execution, FY20 PB; POM

**Goal: Invest 2-4% of PRV per year to maintain Physical Plant**



# *Installation Operations Program Responsibilities*

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- **BOS Contract Integrator and Commodity Lead**
    - Utilities, Custodial Services, Grounds Maint., Refuse, Pest Control
    - Air Force Common Levels of Service (AFCOLS)
  - **Reach-back Engineering Expertise for Installations**
    - Civil, Electrical, Mechanical
  - **Infrastructure Oversight**
    - Airfields, Pavements, Utility Systems, POL Systems
  - **Energy Management – Installation Energy Plans**
  
  - **Items of Interest:**
    - BOS Contract Re-competes (Service Disabled Veteran Owned Small Business)
    - Sustainment Management Systems
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# ***BOS Contract Re-Competes***

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- **Four Installations on 1-year interim contracts**
  - **Re-compete in 2020 for five-year contracts (base year with four 1-yr options)**
    - **Westover ARB, MA; Niagara Falls ARS, NY**
    - **March ARB, CA; Homestead ARB, FL**
  - **Includes multiple functions:**
    - **Real Property Maintenance**
    - **Base Supply, Fuels Mgmt, Traffic Mgmt , Veh Mgmt**
-



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# *Facility Condition Index*

## *Current Assessment*

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- **AFRC is on track and doing well!**
  - 100% BUILDER implemented across host installations
  - Met revised 2018 FCA target of 75% of critical facilities w/MDI > 60
- **All future MILCON and Major Renovation Construction Specs to include gathering and providing BUILDER data**
- **Ruggedized tablets at two installations; updates not reflected**
- **Postured for SMS implementation for horizontal systems**
  - Pavements data loaded in PAVER
  - Linear Segmentation of Utility Systems completed
- **Lots of data; beginning to assess utility of SMS to drive investment decisions**

***Continue to mature SMS for standardized DOD facility asset management***



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# Facility Condition Index

## “Big 7” BCI FY19

	Dobbins	Grissom	Homestea	March	MSP	Niagara	Pittsburg	Westover	Youngsto
Last Focus	Aug-18	Sep-14	Jun-18	Jan-17	Apr-15	Jun-15	May-14	Aug-17	Oct-19
Avg BCI	84	83	83	80	85	84	85	84	83
Exterior Enclosure	81	85	83	80	83	86	87	83	87
Roofing	79	80	75	79	83	75	84	78	86
Interior Construction	86	88	88	84	88	88	87	88	91
Plumbing	79	79	86	70	83	81	81	78	87
HVAC	81	77	72	74	83	80	79	82	87
Fire Protection	89	83	87	81	86	84	84	88	92
Electrical	83	82	80	79	85	82	83	82	82

### Analysis

- “Big 7” components best reflect customer facility experience – quality of life
- Avg BCI includes 18 components assessed by AFRC
- Numbers are averages across AFRC host base facilities
- Report date: 2 Dec 19

### Countermeasure

- FOCUS Visits
- BCE Staff perform assessments
- Assess - 20% annually
- Update facility component data – work orders

ASSESSMENT

Component Condition Index

### Details

- Objective:** ■ Inventory and Assess all AFRC Facilities
- Measures:** ■ Quarterly monitoring of completion rates
- Data Source:** ■ BUILDER Final 9 Report



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# Facility Condition Index

## "Big 7" BCI Delta from FY18

### Analysis

- Blue shows positive change in condition index
- Red is negative change in condition index
- Report date: 2 Dec 19
- Delta is from 2018 OSD brief

### Countermeasure

- FOCUS Visits
- BCE Staff perform assessments
- Assess - 20% annually
- Update facility component data – work orders

ASSESSMENT

Component Condition Index

	Dobbins	Grissom	Homestea	March	MSP	Niagara	Pittsburgh	Westover	Youngsto
Average BCI	-1	-1	-1	-2	-1	-2	-2	-1	-1
Exterior Enclosure	-2	-1	-1	-1	-2	-1	-1	-1	1
Roofing	-3	-2	-2	-2	-2	-2	-2	-1	11
Interior Construction	-1	-2	-1	-1	-1	-1	-1	-1	5
Plumbing	-2	-2	-1	-3	-3	-3	-2	-2	5
HVAC	-3	-3	-2	-4	-2	-3	-2	-2	10
Fire Protection	-1	-2	-1	-2	-1	-2	-2	-2	9
Electrical	-1	-2	-1	-3	-2	-1	-2	-2	-1

### Details

- Objective:** ■ Inventory and Assess all AFRC Facilities
- Measures:** ■ Quarterly monitoring of completion rates
- Data Source:** ■ BUILDER Final 9 Report





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# ***Environmental Programs***

## ***Env Quality, Asset Mgmt, Real Property***

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### ■ **Environmental Quality**

- **Maintain compliance, maintain environmental mgt. system (EMS)**
- **Manage National Environmental Policy Act (NEPA) actions**

### ■ **Asset Accountability**

- **Prioritize facility and infrastructure requirements**
- **Analyze sustainment mgt systems (BUILDER, PAVER, etc.)**

### ■ **Real Property/Real Estate**

- **Real Property records and inventory accountability**
- **Land/property acquisition and disposal efforts**

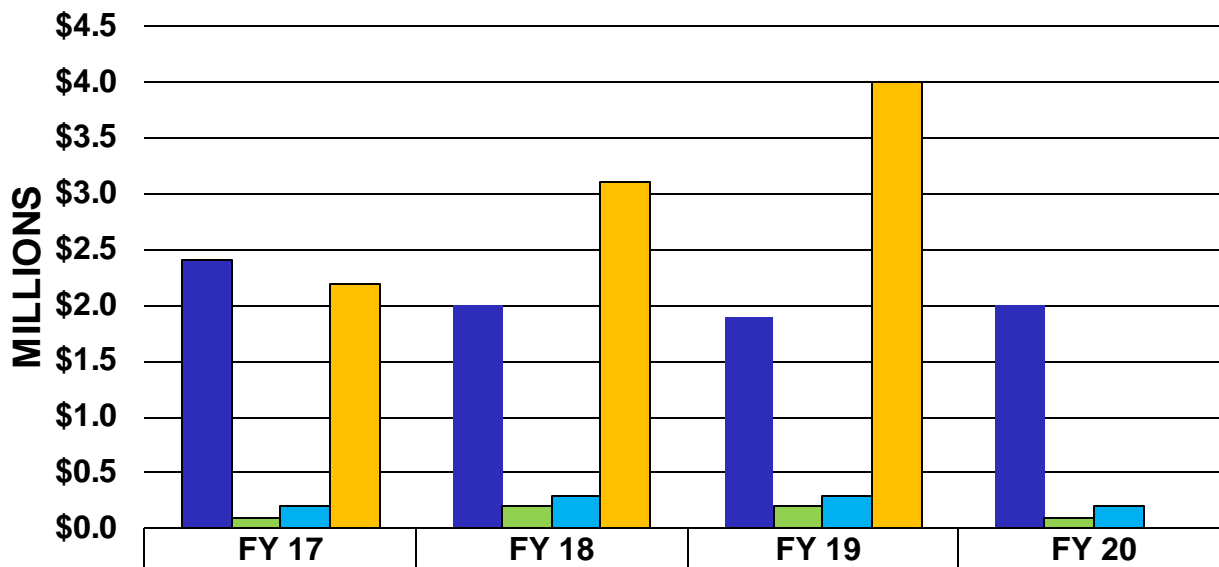
### ■ **Items of Interest:**

- **AFFF recovery/disposal/replacement (AFCEC program)**
  - **Installation level environmental staff support**
  - **Installation level support of Financial Improvement Audit Readiness (FIAR) efforts**
-



# Environmental Programs FY20 Funding

## ENVIRONMENTAL FUNDING



	FY 17	FY 18	FY 19	FY 20
■ Compliance PB	\$2.4	\$2.0	\$1.9	\$2.0
■ Pollution Prevention PB	\$0.1	\$0.2	\$0.2	\$0.1
■ Conservation PB	\$0.2	\$0.3	\$0.3	\$0.2
■ AFRC Insourced Funding	\$2.2	\$3.1	\$4.0	





# ***AFRC AFFF (PFOS/PFOA)***

- **Old Aqueous Film Forming Foam (AFFF), used as a fire fighting agent, contains perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA)**
- **100% old AFFF removed and replaced from AFRC's equipment and host-installation facilities**
- **Drinking water at all AFRC installations tested and meets EPA health advisory standards**
- **Ground water Site Investigations (SI) found localized contamination at all AFRC installations**
- **SI results will be used to prioritize Remedial Investigation efforts (next phase)**
- **AF centrally manages PFOS/PFOA at AFCEC**  
(<https://www.afcec.af.mil/WhatWeDo/Environment/Perfluorinated-Compounds>)



# *Legislative Language*

## *Risk Assessment of AFR Hangars*

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- **FY20 HAC-MILCON Subcommittee Report on NDAA**
  - SAF directed AFRC to conduct risk assessment on AFR hangars and develop plan to update these facilities in 21-25 FYDP
  - Identical request received in FY18 MILCON bill and responded to
- **2019 Evaluation complete and report submitted to HAF**
  - AFRC continues to support FSRM repairs
  - Hangar repairs compete favorably within annual budget
- **Besides new mission hangars, current MILCON plan:**
  - Grissom- Nose Dock 5 (funded in FY19 - \$12.1M)
  - Westover ISO Hangar (funded in FY19 - \$42.6M)
  - Patrick HC-130J Hangar (funded in FY19 - \$24M)
  - Homestead Corrosion Hangar (programmed for FY22)



## *Where Do I Get More Info?*

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- Request for Information (RFI)
  - Sources Sought Synopsis
  - Pre-solicitation Notices
  - Award Notices
  - Requests for Quotes/Proposals
    - Government-wide Point of Entry (GPE)
      - <http://www.fedbizopps.gov>
      - <http://www.ebuy.gsa.gov>
  - AF Budgets – current and historical
    - <http://www.saffm.hq.af.mil/budget/index/asp>
-



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- **A4CO: Installation Operations; Mr Ray Knapek**  
[raymond.knapek@us.af.mil](mailto:raymond.knapek@us.af.mil) ; (478) 327-1030
- **Each unit has a Project Manager (PM) assigned for:**
  - **Program Development (project planning and approval)**
  - **Program Management (project award & construction)**