Air Force Life Cycle Management Center

Providing What the Warfighter Needs When They Need It

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AFLCMC/WB

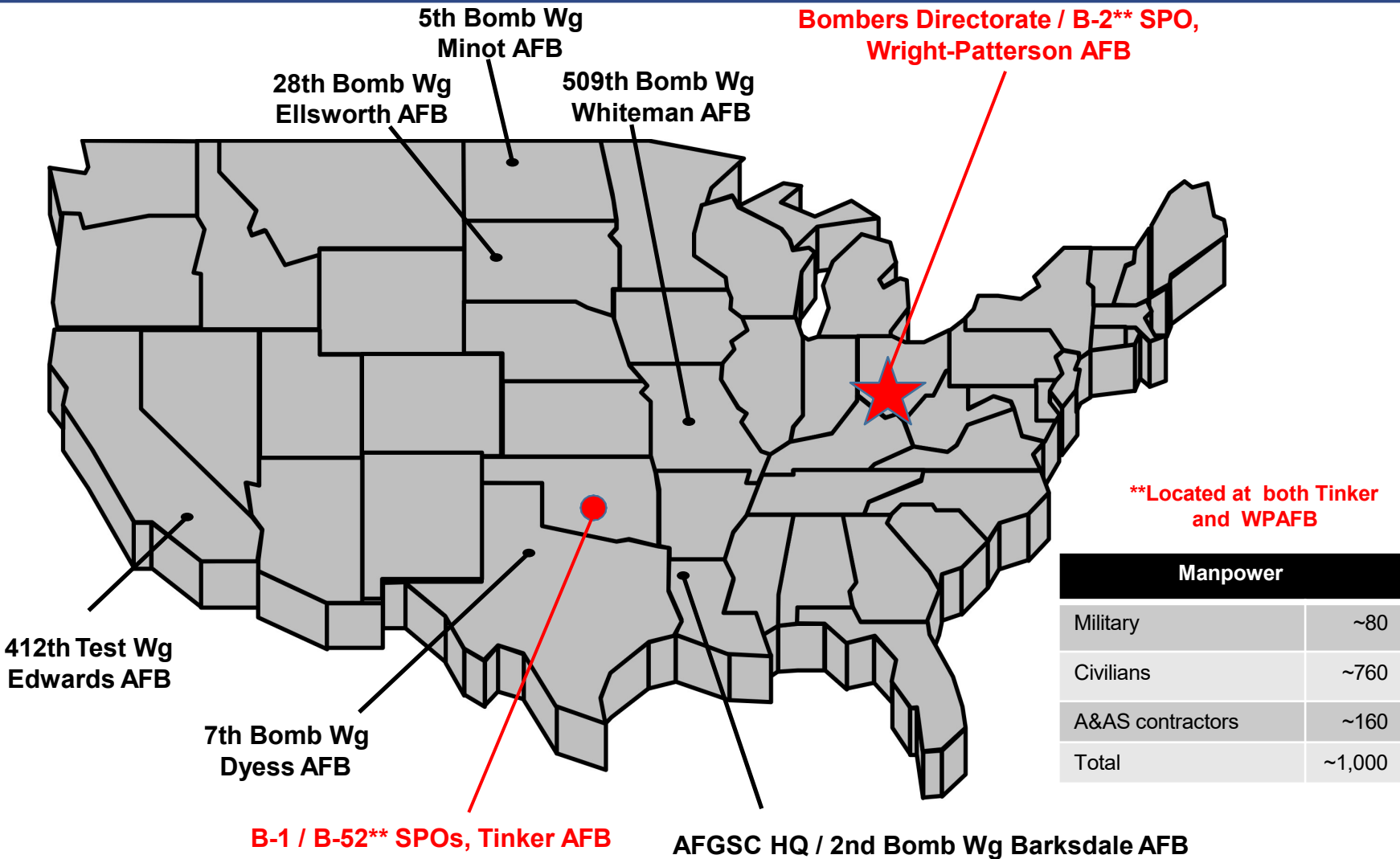# Bombers Directorate Portfolio

B-1
45 Aircraft

B-2
20 Aircraft

B-52
76 Aircraft

B-21
OT&E Only

B-21 Raider

141 Fielded Bombers

ACAT I – 1
ACAT II – 7
ACAT III – 35
Section 804 – 1

5th Bomb Wg
Minot AFB

28th Bomb Wg
Ellsworth AFB

509th Bomb Wg
Whiteman AFB

Bombers Directorate / B-2** SPO,
Wright-Patterson AFB

412th Test Wg
Edwards AFB

7th Bomb Wg
Dyess AFB

B-1 / B-52** SPOs, Tinker AFB

AFGSC HQ / 2nd Bomb Wg Barksdale AFB

**Located at both Tinker and WPAFB

Manpower	
Military	~80
Civilians	~760
A&AS contractors	~160
Total	~1,000

Bombers Mission, Vision, & Focus Areas

Mission Statement:

Deliver combat effective bomber capabilities across the lifecycle everyday

Vision Statement:

The Nation's trusted team to deliver unrivaled bomber strike capability

5 Focus Areas:

1) Building the trusted team:
- Hiring, onboarding, and training
- Grow inclusive Bomber culture
- Communication and connectedness

2) Deliver bomber capabilities:
- Meet our commitments
- Nuclear Modernization
- Execute Bomber OI/COE equities

3) Continue to Innovate:
- Establish integrated capabilities roadmap
- Improve processes
- Seek and leverage opportunities

4) Enhance and Advocate for Infrastructure
- Classified/unclassified IT
- Secure facilities across Directorate
- Improve infrastructure user experience

5) Focus on Bomber Industrial Base
- Increase competition
- Pursue ways to stabilize industrial base – primes and suppliers

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Raytheon Technologies

NORTHROP GRUMMAN

BOEING

ROLLS ROYCE

- **Section 804 (MTA) Program**
  - **B-52 CERP (Commercial Engine Replacement Program) –** In Rapid Virtual Prototyping phase (RVP), transitioning to MCA, entering at MS-B
    - Acq Strategy update Aug 2022, MS-B Sept 2023, initial installs in 2024
- **ACAT I Programs**
  - **B-52 RMP (Radar Modernization Program) –** MS-B complete, June 2022. Beginning first install in May 2023.
- **ACAT II programs**
  - **B-1 FIDL (Fully Integrated Data Link)** – Fielded, in depot activation
  - **B-1 VSD (Vertical Situation Display) Upgrade** – Fielded, in depot activation
  - **B-2 FS-1 (Flex Strike Phase 1)** – Fielded, software updates underway
  - **B-2 BDM (B-2 Display Modernization)**
  - **B-2 Advanced Communications**
  - **B-52 CONECT (Combat Network Communications Technology)** – Fielded, in depot activation
  - **B-52 1760 IWBU (Internal Weapons Bay Upgrade)** – Fielded

B-1 Overview

- **Only supersonic variable-swept wing long range conventional bomber**
  - 45 aircraft in inventory, 2040+ structural service life
- **Missions:** Strategic attack, air interdiction, offensive counterair, close air support, and countersea
- **Key Capabilities:** Global range, persistence, precision strike, large/flexible payload, standoff or penetration
- **Weapons:** GBU-31/38 (JDAM), GBU-54 (Laser JDAM), AGM-158A/B (JASSM), AGM-158C (LRASM), CBU-103/104/105, Mk-62/65 Sea Mines, Mk-82/84 GP Bombs
  - Largest weapon payload in the Air Force inventory

Providing What the Warfighter Needs When They Need It

B-1 Business Opportunities

- **Low-cost mods & structural parts for prototype repairs**
- **Digital Twin, Digital Engineering & Digital Resource Management to improve acquisition & sustainment efforts**
- **Hypersonic Weapons Test Bed / Integration via external carry**

B-2 Overview

- **Flagship of the nation's long-range strike arsenal**
- **Flexible strike capability**
  - **Air to surface bombs**
  - **Non-nuclear missiles**
  - **Nuclear weapons**
- **Proven combat effectiveness –** deter, assure, strike

B-2 Business Opportunities

- **Low observable signature & supportability modifications**
  - Continuous improvement program designed to ensure B-2 stealth confidence and maintainability through lifecycle
  - Targets affordable, quick-to-field solutions to keep stealth viable, maintenance affordable; improves aircraft availability

- **B-2 Battlespace Collaborative Combat Communications (B2C3)**
  - Enables B-2 communication and operation in the Advanced Battle Management System (ABMS) and Joint All-Domain Command and Control (JADC2) environment
  - Ability to rapidly onboard mission capabilities

- **Adaptable Communication Suite (ACS)**
  - Provides SATCOM connectivity for command & control enroute to target
  - Airborne mission transfer, Beyond-Line-of-Site (BLOS) situational awareness
  - BLOS & voice comm upgrade to address obsolescence issues and obtain Mobile User Objective System capability: replaces PRC-117G/ AN/ARC-234 radios

B-52 Overview

- **No longer thinking of B-52 as a legacy platform – it will be in the inventory past some 5th gen aircraft**

- **Undergoing largest modernization effort in B-52 history; upgrading Radar, Engines, Flight Controls, Comm and Avionics Equipment**

- **Continuing emphasis on development, production, dependency, and infrastructure management to support major modernization push**

B-52 Business Opportunities

- **AgilePod Rapid Demonstration-- opportunity to showcase expanded and flexible operational capabilities through reconfigurable pod and payload.**
  - Suite 1 payload will demonstrate the enhanced communications capability.
  - Government owns the data rights for the pod

- **Advanced Stores Pylon**
  - New design pylon that will increase current magazine capacity of aircraft and add ability to carry larger and heavier stores
  - Increase platform weapons capacity

- **B-52 Next Generation Jamming Demo**
  - Flight demonstration of technology in FY24 to assess military utility and operational/mission effectiveness
  - In early planning stage of effort

The Edge - Innovation

- **Engaging AF and industry partners to leverage current/future innovation opportunities to support the warfighter**

- **Innovation is a very broad topic and not all innovation is for the new thing**
  - Our fleets range in age to 70 plus years, we must innovate to remain relevant and maintain a globally powerful deterrence

- **The Edge is in a position to transition technologies and use innovative approaches to field new capabilities quickly into Bomber aircraft**

- **A recent innovative success for the B-52 is the ability to field, fly, and demonstrate in a short period a created AgilePod® 26 and its payload**
  - Advanced comm/network capabilities for cutting-edge technologies and capabilities
  - Initial Start was January 2021 and First Flight was completed Tuesday, 22 Feb 23

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- **The topic of Digital Acquisition / Reverse Engineering and Data Rights are critical to making us all successful**
  - These include new and rapidly advancing things and digital models and information along with those data rights for the future are critical to our older platforms to stimulate innovation and advancing technologies

- **Communications is another area we focus on with our platforms. Our Goal: Open Mission Systems and Universal Command and Control Interface**
  - NC3, Alternative Position, Navigation, Timing (Alt PNT), Retargeting, Classified Comms, and Communications Cyber Resiliency

- **Supply Chain - we use innovation in how we help you and your supplies to our fleets**
  - Must think about how it affects the global operations of our Bombers' fleets
  - Must make it robust, faster, and readily available for operations

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