Headquarters Air Combat Command

Precision Engagement In The USAF

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This Briefing is:
UNCLASSIFIED
Overview

• Snapshot of Current Operations
• Global Strike
• Precision Engagement
• F-22
• Gaps
Air Force Priorities

• Fight and Win The Global War on Terror

• Develop and Care for Airmen and Their Families

• Recapitalize and Modernize Our Force
Deployed Airmen

- 35,000 Airmen deployed
  - 25,000 CENTCOM AOR

- 10,000+ deployed on 179-day rotations

- 1,000+ deployed on 365-day rotations
  - 677% increase since 2005
CENTCOM AOR

• Operating out of 10 major bases
  • 60 different locations

• 80,000 sorties over the past year

• 250 sorties per day in Iraq and Afghanistan
Homeland Defense

• 48,000 sorties since 9/11

• Stand up of 1st AF AOC
Today’s Enemies
Tomorrow’s Threats
Threat
AF CONOPS Construct

Air and Space Expeditionary Force (AEF) is the USAF foundation to prepare, respond, deploy, and employ for any task.

Homeland Defense & Civil Support CONOPS
Global Strike CONOPS
Global Mobility CONOPS
Global Persistent Attack CONOPS
Nuclear Response CONOPS
Space & C4ISR CONOPS

Agile Combat Support
Timeframe: 2025
Global Strike CONOPS
High Level Operational Concept Graphic (OV-1)
Viewpoint: Air & Space Campaign Level
REF: Global Strike CONOPS Draft Ver. 2.33 (1 Mar 06)

Desired Effects:
Rapid Strike
Gain Access
Precision...
Leaps in Capability
Doumer Bridge
Iraqi Capitulation

To avoid destruction, follow Coalition guidelines.

1 Kilometer

CAPITULATED FORMATION
Example of an IADS

Non-Stealth Fighter
Example of an IADS

Stealth Fighter at High Altitude Employing Supercruise
The Solution
F-22 Multi-Role Capability

- F-15C Air Superiority
- F-16CJ SEAD
- F-117 Stealth Strike
- F-15E Precision Strike
**F-22 Performance Capabilities**

- Altitude: 60,000 ft
- Speed: 800 KCAS
  - Mach: 2.0
  - Supercruise > Mach 1.5
- G Load: 9
- AoA: -60 to > +60 deg
In 15 Minutes, an F-22 Can Cover Nearly 3 Times More Air Space

- Increased presence
- Improved weapon kinematics
- Shorten enemy reaction time
- Lowers IR signature

Supercruise Advantages
Stealth in Air to Air

First Look, First Shot, **First Kill**
**F-22 Weapons**

**F/A-22 Internal Weapons Carriage**

*Gun: M61 Cannon 480 rounds*

**Side Bays:**
- 2 x AIM-9M/X

**Center Bay:**
- 6 x AIM-120C
  - or
- 2 x AIM-120C/
- 2 x 1000# JDAM

**Valuable Air-to-Ground Capability**

- **All Weather**
- **Near Precision Joint Direct Attack Munition (JDAM)**
- **Four 5000 Pound External Wing Hardpoints**
F-22 Battlefield Integration

- Currently GBU-32 Only (Awaiting SDB)

- Combat HAMMER drops successful (50k @ 1.5M)

- Bomb on Coordinate ONLY
  - Future Upgrades allow Self-Generation of Coords
Increasing 5th Gen Fighters
Complementary / Synergistic

F-22A

Complementary Missions

Air-to-Air Dominance

Persistent Attack
• Air Interdiction (AI)
• Close Air Support (CAS)

Incidental / non-optimized capability for complementary missions

Synergistic Missions

Suppression / Destruction of Enemy Air Defenses (SEAD/DEAD)
Strategic Attack (SA)

Unique capabilities combine to accomplish mission they could not do alone

Common Mission Elements

Intelligence, Surveillance and Reconnaissance (ISR)
Electronic Attack (EA)

F-35A
Capability Gaps
Moving Target Capability

Today

- Hellfire
- Gun / Ammo
- LGB
- Maverick

Future

- PELE
- LJDAM
- Risk Mitigation

Capability Gap

(Adverse WX, High Threat)

(Clear WX, Low Threat)

07 08 09 10 11 12 13 14 15
Hardened / Deeply Buried
Combat ID
Lowering Collateral Damage
Challenges Ahead
One Joint Fight...