Mission:
Equip Warfighters By Acquiring and Supporting War-Winning Capabilities

Vision:
Deliver Affordable World-Dominant Armament Capabilities...On Time, On Target
Armament at a Glance

DELIVERING AFFORDABLE WORLD-DOMINANT ARMAMENT CAPABILITIES...ON TIME, ON TARGET

Weapons Portfolio

- RDT&E: $668M
- Procurement: $8610M
- O&M: $3M
- CAM: $208M
- FMS: $9550M

$19.0B Total Active Year

Directorate Manpower

- Civilian: 65%
- Enlisted: 4%
- CME: 22%
- Off: 9%

1512 Total Manpower

$67B Armament Directorate Portfolio

<table>
<thead>
<tr>
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<th>Directorate</th>
<th>AFPEO/WP</th>
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<tr>
<td>Total WML</td>
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<td>N/A</td>
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<td>Total AML</td>
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<td>ACAT I</td>
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<td>ACAT II</td>
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<td>ACAT III</td>
<td>14 (including WPS, Navy)</td>
<td>17 (HBZ, WLD, Navy)</td>
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Directorate Manpower: 1512 Total Manpower

Integrity ★ Service ★ Excellence
Alignment with Air Force Core Functions

DELIVERING AFFORDABLE WORLD-DOMINANT ARMAMENT CAPABILITIES...ON TIME, ON TARGET

**Air Dominance**
- AMRAAM
- AIM-9X (Navy-led)
- HTS

**Direct Attack**
- HTVSF
- JPF
- M-Code
- ILW
- MOP
- BLU-129/B
- Med Cal Ammo
- LWIP

**Specialized Management**

**Armament / Munitions Sustainment**
- JDAM
- Paveway
- Flares
- CAD/PAD
- Small Arms
- Maverick
- Hellfire

**Miniature Munitions**
- SDB II
- JMM BRU
- SDB I
- BRU-61/A

**Test & Training**
- QF-16
- CRIIS
- TCS
- AFSAT

**Advanced Programs**
- JASSM
- JASSM-ER
- MALD
- MALD-J

**Long Range Systems**

**Proven Aircraft**
- QF-4

**Combat & Mission Support**
- JTE
- P5CTS
- UMTE
- ARTS
- Legacy Threat Systems

**Nuclear Deterrence Ops**

**Space Superiority**

**Cyberspace Superiority**

**Global Precision Attack**

**Rapid Global Mobility**

**Global Integrated ISR**

**Command and Control**

**Personnel Recovery**

**Building Partnerships**

**Agile Combat Support**

**Education and Training**

**ACAT I**
**ACAT II**
**ACAT III or other**
400,000+ weapons expended by US in current Overseas Contingency Operations

Production expected to exceed 65,000 units FY17

314 active FMS cases supporting 55 countries
Operational Expenditures

- Surging today, but need to sustain tomorrow
- Managing “Weapon System” inventory as a whole
- Full teaming effort...Services, Industry, OSD, Congressional Alignment
PEO Priorities

Resource, Develop, & Care for a Mission-Driven Workforce

Disciplined Program Execution

Should Cost

Increase Competition

Reduce Sole Source Costs (Prices)

Increase Contract Flexibility

Hold Contractors Accountable

Improve Stakeholder Relationships

Integrated Life Cycle Management

Integrated Armament Enterprise

Build Capacity (NOW)
- Must address current inventory challenges (legacy program)
- UONs – rapid field critical capability (APKWS)

Provide Capability (TOMORROW)
- Improve legacy weapons (M-Code, CryptoMod)
- Field next generation weapons (SDB II, A2K, A5K)

Posture for the FUTURE
- Third Off-Set – identify, partner, accelerate and field game-changing technologies
Addressing Inventory Shortfalls
Three-Pronged Strategy

- Re-aligning to Address Current Contingency Operations
  - Redistributing pre-positioned stock to meet theater demands
  - Managing munitions stockpiles

- Increasing Procurements & Production Capacity
  - Facilitization
  - Addressing component shelf-life
  - Approved IM waiver
  - Evaluating investment plans to reshape delivery schedules

- Alternate Solutions Where Feasible
  - APKWS RW+
  - GBU-12 Paveway II
  - Maverick
Stockpile Resupply Management

- **Theater to Theater**
  - Multiple theaters have provided assets to support Overseas Contingency Operations in FY16
  - First-in-First Out (FIFO) principles feed older stocks to Warfighter and resupply with newer production
  - Lengthy logistics process for movements (90-120 days) and costly vs. direct support from depot and production

- **Intra-theater – AFCENT**
  - AFCENT resupplies units on a weekly basis from centralized storage locations within theater (C-17/C-130)

- **CONUS to Theater**
  - GACP works with JMC to ensure AS vessel schedule is conducive to AFCENT’s demand (typically 2 vessels per FY)
  - Next AS resupply vessel already planned/positioned
  - CONUS units also relinquished older non-anti-jam tailkits in FY16 to Warfighter
GP Bombs/Penetrators

Efforts to expand bombs production capacity:

- Realigning funding from programs near IO requirements to critical low weapons systems
- Investing in existing industrial base to increase capacity
- Pursued IM Waiver to produce 2,000 lbs GP Tritonal bombs to supplement IM production
- FMS strategy to sell Tritonal bombs vs IM filled bombs to FMS customers

As of 6 Oct 16
Production Ramp-Up

GP Bombs Production Capacity Increase

MK-84 Production (Tritonal)

JP Bombs LAP Production

JDAM Tailkit Production Capacity Increase

Production Capacity Increase

Kit Production per Day

Baseline Plan Feb 16
Current Manufacturing Plan

SDBI Production Capacity Increase

SDB I Production Ramp per month

HELLFIRE Production Capacity Increase

Production Capacity Increase

Baseline Plan Feb 16
Bomb Bodies, Lugs, & Lanyards

Issue: Industrial base has reached maximum production capacity

Sensor / Nose Plugs

Issue: DSU-33 Sensor - Diminishing materiel and manufacturing sources (DMSMS)

MK-82 / BLU-111 500 LB

Fuzes

Issue: Legacy FMU-139A/B fuzes expiring, FMU-152 production is ending, FMU-139D/B version in development

Tail kits & Strakes

Issue: Tail Kit production deliveries not keeping pace with increased usage

KMU-572 (JDAM Kit)
Alternate Weapons Inventory

**AGM-65 Maverick Missile**

- Inventory Objective
- Inventory
- On-contract deliveries
- Funded deliveries

**GBU-10 Paveway II Laser Guided Bomb**

- Inventory Objective
- Inventory
- On-contract deliveries
- Funded deliveries

**GBU-12 Paveway Laser Guided Bomb**

- Inventory Objective
- Inventory
- On-contract deliveries
- Funded deliveries

**Current Status**

- Inventory available for us
- Sunk cost
- Capability Δ, sufficient for today’s fight?
  Low usage in today’s operations, placing strain on replenishment and logistics
FW APKWS System Description

- APKWS II adds a Guidance and Control Section to Legacy 2.75-inch Rocket System

- FW APKWS II modifies Helo G&C section
  - HW and SW modification to handle fast movers
  - Launcher extended 11” for increased stability
  - JCTD MUA on AV-8B, A-10, F-16

Integrity ★ Service ★ Excellence
Advanced Precision Kill Weapon System (APKWS) Urgent Operational Need

- Quick and tailored acquisition
  - Initial Fielding Capability (IFC) 3 months ahead of schedule
  - First successful combat shot within 11 days of delivering system

- Mutual cooperation with Navy/Army/Marines and Contractor
  - Shared AF fielding strategy w/ Navy; accel’d ECP approval
  - Borrowed Launchers from Navy/Marines to complete system

- Successful RDT&E Program
  - Executed Captive Flight Profile in 2 weeks
  - Used Quick Reaction Capability Plan 70; #1 test priority at Eglin
  - Met flight clearance critical requirement

- Incremental data feed/plus post-board actions to Non-Nuclear Munitions Safety Board
  - Gained board’s initial fielding approval
Dual Mixed Loads Demonstration

- Place multiple impacts of BLU-109 & BLU-113 in same penetration path
- Release up to three BLU-109’s followed by up to two BLU-113’s
  - Within radius of the Mean Point of Impact (MPI)
  - Accuracy of CEP from the designated impact coordinate
  - Impact angles of attack
  - Impact angles

- Competitively awarded
- Period of Performance: 18 months
- Successfully demonstrated:
  - Ability to adapt the JDAM 2K BLU-109 tail kit to the 5K BLU-113
  - CEP and dispersion requirements
  - Synergistic penetration benefit of “mixed load” (2000lb/5000lb) “multi-hit” capability

Integrity ★ Service ★ Excellence
- **Latest Test Successes**
  - 18 tests were conducted since May 16

- **Upcoming Tests**
  - 28-shot Government Confidence Testing (GCT) starting Wk of 17 Oct 16

- **Milestone Events**
  - Lot 2 Production contract awarded 8 Sep 16
  - Lot 3 Production contract award projected NLT Jan 17
  - OTRR projected Jun 17
    - Accelerate fielding

- **Production Schedule**
  - Production of test assets is on-going
  - LRIP Lots 1 (144) and 2 (250) are on contract
    - Lot 1 deliveries – production ongoing in FY17
Key Take-Aways

- Surging today, but need to sustain tomorrow
  - Leverage full spectrum of weapons capabilities

- Managing “Weapon System” Inventory as a whole
  - Tailkits by themselves ≠ Capability

- Full teaming effort...Services, Industry, OSD, Congressional Alignment