PMA-242
Direct & Time Sensitive Strike
CAPT Brian Corey

Precision Strike Annual Review
21 April 2010
**APKWS Components**

**Mid-body Design is Supportable**
- No platform modifications required
- No changes to weapons loading
- Limited training required for pilots
- Fired like an unguided Hydra

**Mid-body Design is Reliable**
- Optics protected prior to launch from adjacent firings, sand, moisture, etc.
- Wide FOV for broader capture area
  - Field of regard 40°
  - Field of view 28°

**M151 Unitary Warhead & M423 Fuze**

No Impact on Warhead Effectiveness
- Warhead does not "fire through" guidance unit

**Mark 66 Mod 4 2.75” Rocket Motor**

**Guidance Section**
Aviation Operational Need

- Precise
- Affordable
- Versatile
- Lethal
- Low Collateral Damage

Unguided Rocket (<1-6 Km)
Area Suppression, Illumination, Obscuration, Marking

Guided Rocket (1.5-5+ Km)
Precision Engagement, Soft Targets

Hellfire Missile (1-8 Km)
Anti-Armor

Fills the weapons gap for soft and lightly armored targets
JAGM Overview

**Accomplishments / Status**
- ACAT 1D Joint Program – Army Lead w/ Navy And USMC
- Two Fixed-Price Incentive Contracts Awarded 9/11 for a 27-month Technology Development
- Phase Culminates in Prototype Test Flights of Raytheon and Lockheed Martin Missiles

**Capability**
- Provides Line of Sight (LOS) & Beyond LOS
- Precision Point and Fire & Forget Modes
- Replaces Hellfire, Maverick and Air-launched TOW
- Modular Missile Approach Addresses Incremental Requirements
- System ~ 108 Lbs, 7 Inch Dia., 70 Inch Length
- Range: 500 – 16,000 Meters Rotary Wing
  2,000 – 28,000 Meters Fixed Wing

**Key Events and Dates**
- **Contract Awards(2)** 11 Sept 08
- **Integrated Baseline Reviews** 15 Dec 08
- **Program Management Reviews** 2QFY09
- SRR/SFR 4QFY09
- Preliminary Design Review 3QFY10
- Milestone B 1QFY11
- IOC - F/A-18E/F, AH-64D, AH-1Z FY16
- IOC – MH-60R, SkyWarrior FY17
JAGM Requirement

Current
AIR TOW 2A
BASIC HELLFIRE
INTERIM HELLFIRE
HELLFIRE II (Multiple Variants)
LONGBOW HELLFIRE
MAVERICK (IR)
MAVERICK (SAL)

ROTARY / FIXED WING & UAV PLATFORMS

Future
Objective: SINGLE MISSILE

Threshold Platforms
Navy: F/A-18E/F, AH-1Z, MH-60R
Army: AH-64D, ER/MP

Objective Platforms
Army: AH-64A

• Addresses J ROC Approved Capability Gaps
• Replaces 3 legacy weapons systems
• Provides commonality and interoperability between Services
• Addresses changing OE/Threat
• Approximately 20 lb warhead
• CDD Validated Nov 2007
J AGM Acquisition Strategy

- Army Led ACAT 1D Program
- Three phase effort planned & fully funded
- TD phase (27 month Competition)
  - Contracts Awarded in September 2008
  - Raytheon / Boeing & Lockheed Martin
  - Fixed Price Incentive (Firm Target)
  - **Preliminary Design Review (PDR)**
  - **Prototype ground launches**
  - **F/A-18 flying quality flights**
- EMD phase (48 month)
  - One contractor
  - Critical Design Review
  - DT / OT
- LRIP phase
  - LRIP options to be included in EMD proposals