Aviation Weapons Systems Requirements

Col Robert Claypool
Branch Head, Aviation Weapons Systems Requirements (APW-1)
Air to Ground Weapons Roadmap

- **Directed Attack**:
  - GP Bomb
  - DAMTC (LJDAM)
  - JAGM
- **Guided Rockets/MGA**:
  - APKWS II
  - Laser Guided 5” Zuni
  - 20mm/25mm/30MM/CDWS
- **Stand-off Weapons**:
  - JSOW A/C
  - SLAM-ER
  - Harpoon 1-C

**Fixed Wing Transition**

**Rotary Wing Transition**

**Persistent Weaponized ISR**

**Pacing Aircraft Advances with Enhanced Precision & Lethality**

- **Rockets/Machine Gun Ammo**
  - 2.75” Rockets
  - 5” Rockets
  - 20mm/25mm/50Cal
- **Direct Attack**
  - GP Bomb
  - LGB/JDAM
  - DMLGB
  - Hellfire
  - TOW
  - Maverick
  - GBU 24/J109
- **Stand-off Weapons**
  - JSOW A/C
  - SLAM-ER
  - Harpoon 1-C

- **Guided Rockets/MGA**
  - APKWS II
  - Laser Guided 5” Zuni
  - 20mm/25mm/30MM/CDWS
- **Direct Attack**
  - GP Bomb
  - DAMTC (LJDAM)
  - JAGM
  - GBU 24/J109
  - GP Bomb
  - SOPGM
- **Stand-off Weapons**
  - JSOW C-1
  - SLAM-ER
  - SDB II
  - AARGM
  - Harpoon 1-C

**2010**

**2013**

**2015**

**2020**

**2030**

Notional Image
Marine Aircraft Group 26
Commanding Officer (2009)

“Operation Iraqi Freedom Warfighter Experience”

Col Steven Rudder
Branch Head, Aviation Expeditionary Enablers (APX-1)
Marine Air Ground Task Force (MAGTF) Responsive Fire Support

**Find** ➔ **Fix** ➔ **Track** ➔ **Target** ➔ **Engage** ➔ **Assess**

**Command and Control**

Aviation Combat Element (ACE)
- AH-1/UH-1
- AV-8/F-18

ISR Scan Eagle
- RQ-7B

**Positive Identification**

**Weapon to target match**

**Sharing the Picture**

**Rules of Engagement**

**Scalability/Flexibility**

Fires Approval

**Ground Combat Element (GCE)**

IDF

FSCC

DASC

Date: 21 Apr 10
Marine Air Ground Task Force (MAGTF)

- Hellfire, unguided rockets
- Forward Air Controller (Airborne) capable
- Tactical Video Data Link (TVDL)
- Advanced Precision Kill Weapon System II (APKWS II)
- Multifunctional Information Distribution System (MIDS)
- Direct Attack Moving Target Capability
- Air Defense System Integrator (ADSI)
- Blue Force Tracker (BFT)
- StrikeLink

RQ-7B

- Video Link to Rover/Video Scout (VS)
- Re-Wing: Endurance/Payload
- POP-300D Payload: Laser Designator Weaponization

AH-1W

- BRU-55: Dual carriage of smart weapons
- BLU-126 Low Collateral (GBU-38v4/GBU-51)

F/A-18C/D

LITENING POD – Video Link to Rover/VS
- Voice
- Video

POP-300D Payload: Laser Designator

- Multifunctional Information Distribution System (MIDS)
- Direct Attack Moving Target Capability

Voice

Video
Questions/Discussion

Marine Aviation

Engaged in the Current Fight - Modernizing the Force