Arming Unmanned Aircraft Systems

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Joint Attack Munition Systems (JAMS)

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Distribution Statement A – Approved for public release. Distribution is unlimited.
Integration of HELLFIRE on Predator

- Integration on Predator
- Providing Launchers and Missiles for use on UAS.
- Supporting platform, launcher, and missile interface modifications as necessary

Viper Strike on Hunter

- Rapid integration and testing
- Currently supporting Strike Warfighting Capability
- Fielded FY07
- First combat use – September 2007

JAMS Began UAS Weaponization in 2001 and continues today:
**Weaponizing ER/MP**
- Currently Working Integration
- Possible Munitions:
  - Hellfire
  - JAGM
- Modified M299 Launcher

**Fire Scout**
- Viper Strike integration
- Laser Payload integration for compatibility with HELLFIRE Missile System for Remote Designation
Limitations & Desired Capabilities of Armed UAS

• **Current limitations of Armed UAS**
  - Limited payload weight and types
  - Limited engagement envelope
  - Altitude Restrictions
  - Strict Rules of Engagement (ROEs)
  - Sensors and weapons under full manual control
  - Stovepipe control
  - Limited to larger UAS

• **Desired capabilities of Armed UAS**
  - Effective mix of weapon types
  - Flexible engagement envelope
  - Automated, fused sensors with pertinent data passed to an operator
  - Final weapon release authority still with operator
  - Easily implemented Rules of Engagement (ROEs)
  - Integrated into MUM Teaming and the networked battlespace
  - Multiple UAS classes
JAMS Total Life Cycle Weapon Support

- UAS Weaponization Process
  - Documentation of Requirements
  - Design of Experiment (to include ROM Cost Estimate)
  - Documentation of Munitions and Platform Characteristics
  - Identification of Required Modifications to Munitions or Platform
  - Design of Required Interfaces
  - Prototype Development
  - Testing
  - Materiel Release
  - Fielding / Training
  - Transfer / Sustainment

The JAMS PO is providing overall program management for weaponization of UAS armed with JAMS PO munitions and is actively working with other Joint Customers to support their weaponization needs.
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