Special Operations Forces Industry Conference

Col Duke Richardson
Program Executive Officer – Fixed Wing

Lt Col Steve Wiggins
AFSOC/A5R

Enhanced Capabilities
Find – Infiltrate - Finish

**MOBILITY**
- CV-22
- Non-Standard Aviation Systems
- EC-130J
- MC-130E Talon
- MC-130P Shadow
- MC-130J
- MC-130H Talon II
- MC-130W Combat Spear

**MISSION SYSTEMS**
- Directional Infrared Countermeasures
- Silent Knight Radar
- Training and Mission Planning

**ISR**
- SUAS
- MEUAS
- EUAS
- MQ-1 / MQ-9
- Special Mission Aircraft

**STRIKE**
- AC-130H Spectre
- AC-130U Spooky
- AC-130J
- MC-130W Dragon Spear
- SOPGM

**FIXED WING**
**Major Areas of Interest**

- Cost of Ownership
- Aircraft Self Protection
- High-Resolution NVG-Compatible Airworthy Displays
- Improved TF/TA Capabilities and Techniques
- Time-Sensitive, Interoperable Mission Planning
- Training System Enhancements
- Digital Broadcasting of EC-130J
- Improved EO/IR Sensors
- Lightweight Cabin and Flight Deck Armor for SOF C-130

- UAS Endurance
- UAS Data Links
- Austere UAS Launch and Recovery
- Plug-and-Play UAS Payloads
- ISR Payloads with Ability to Auto Detect, Track, and Identify Targets
- BLOS for Manned and Unmanned Aircraft
- Reduced UAS Signatures
- Fuel Saving Methods and Equipment
- Cooperative Sensing and Targeting
- Enhanced Strike Capability
NSAS

FY12 Planned Efforts
- Medium NSAv Procurement

Technology Upgrades/
Current Efforts
- Block 20 NSAv-Medium Upgrade
- Low-Cost Mods
- Upgraded Communication Suite
SOF C-130

FY12 Planned Efforts
- SOF C-130 Low-Cost Mods Program
- Special Mission Processor (Increment 3)
- TF/TA Radar for MC-130J
- LAIRCM Next Gen
- APQ-170 SLEP
- Complete NB3 for EC-130J

Technology Upgrades/Current Efforts
- AC-130U/MC-130H MCRP
- Defensive Systems
- Enhanced Situational Awareness
- CNS/ATM for Legacy Aircraft
- Digital Solo for EC-130J
Precision Strike Package
DRAGON SPEAR/AC-130J

FY12 Planned Efforts
♦ Dragon Spear Transition To Sustainment
♦ Precision Strike Package Integration
♦ Airframe Modification Studies

Technology Upgrades/Current Efforts
♦ All-Weather Weapons Capability
♦ Expand Ordnance Package
♦ Upgrade Sensor Suite
Mission Systems

FY12 Planned Efforts
- Continue Simulator Block Updates (SBUD)
- Continue Mission Planning Improvements
- Continue Silent Knight Radar Engineering Manufacturing and Development
- Transition Directional Infrared Countermeasures (DIRCM) Sustainment Management to Air Force

Technology Upgrades/Current Efforts
- Migration To Joint Mission Planning System
- Desk Top Trainers/Deployable Task Trainers
- 3D/Virtual Reality/Gaming Technology
- Multi-Mode Radar (MMR) / Digital Map Blending
- MMR Solid State Transmitter
Unmanned Aerial Systems

UAS Requirement: Penetrate Denied Areas with Element of Surprise and a Reduced Signature

Areas of Interest: Payload Enhancements, Improved EO/IR Capability, Real-time Situational Awareness, Reduced Operator Workload

Payloads Need to Provide
- Intelligence, Surveillance, Reconnaissance, & Targeting
- Communications Relay
- Weapons Delivery

Handheld UAS
- 1.5 - 3 hours endurance
- AECV (NSW)
- SUAS RQ-11 (ARSOF/MARSOC)

Catapult-launched UAS
- 6 - 24 hrs endurance
- EUAS (Viking 400)
- RQ-7 Shadow (ARSOF)
- Scan Eagle (NSW STUAS interim)
- STUAS (NSW)

VTOL
- 4 - 20 hrs endurance
- SLED YMQ-18A
- MQ-8 Fire scout
- MRMUAS

Long Endurance Platforms
- 18 - 24 hrs endurance
- MALET MQ-1B/MQ-9 (AFSOC)
- ERMP MQ-1C (ARSOF)
- Service theater ISR platforms

LOS, FMV only

BLOS, Multi-sensor

Areas of Interest: Payload Enhancements, Improved EO/IR Capability, Real-time Situational Awareness, Reduced Operator Workload
CV-22 SOF Osprey

FY 12 Planned Efforts
- Complete Block 10 Retrofit
- Block 20 Upgrades and Corrections of Deficiencies
- Low-Cost SOF Mods
- Continue Joint Performance Based Logistics (JPBL) Phase I (Integrated Logistics Elements)
- Start JPBL Phase II Supply Chain Management

Technology Upgrades/Current Efforts
- DIRCM Retrofit (GLTAs)
- SIRFC Upgrades (Cabling, Power, Anti-Ice)
- Block 20 Avionics Upgrades (TF, Digital Mapping, HMD)
- Low-Cost Mods