SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE  

Win  •  Transform  •  People

COL David Phillips  Program Executive Officer

ROTARY WING
Schedule of Presentations

Day 1 – Wednesday  
23 May 2018

0930 - 1030  
PEO RW  
Strategic Overview

1100-1230  
PEO One-on-One Sessions

Day 2 – Thursday  
24 May 2018

0900 - 1000  
MH-47G Update

1000 – 1100  
SOF Training Systems Update

1100-1145  
Rotary Wing Panel
STRATEGIC OVERVIEW
PROGRAM EXECUTIVE OFFICE
ROTARY WING

COL David Phillips
Program Executive Officer
History Matters
History Matters

In September 1991 the SOCOM Deputy for Acquisitions office was created. The Mission Enhanced Little Bird became the office’s first program of record. Today, SOF AT&L and PEO Rotary Wing continues to push the capability envelope for the A/MH-6, MH-47, MH-60, and other aircraft systems.

In 1993, SOF Operators were equipped with SOF unique armor, weapons, medical equipment, and specially modified aircraft.

The max gross weight of the A/MH-6 has increased from 2400 lbs (-6A), to 3550 lbs (-6C), to 3950 lbs (-6J), to 4700 lbs (-6M), to 4700+ lbs (-6M Blk 3).
First, Rebuilding Military Readiness as we Build a more Lethal Joint Force;
...strike diverse targets inside adversary air and missile defense networks to destroy mobile power-projection platforms.
...a competitive approach to force development and a consistent, multiyear investment to restore warfighting readiness and field a lethal force. skills into service.

Second, Strengthening Alliances as we Attract new Partners;
...train to high-end combat missions in our alliance, bilateral, and multinational exercises.
...expand access to outside expertise, and devise new public-private partnerships to work with small companies, start-ups, and universities.

Third, Reforming the Department’s Business Practices for Greater Performance and Affordability.
...shed outdated management practices and structures while integrating insights from business innovation.
...explore streamlined, non-traditional pathways to bring critical skills into service.
Program Executive Office Rotary Wing

Mission: Rapid and focused acquisition, research and development, and life-cycle logistics support to the operators of the USASOAC—160th Special Operations Aviation Regiment which provides SOF rotary wing capability to the joint force.

WIN
Sustain current operations, ensuring SOF readiness to win the current fight.

TRANSFORM
Strategic resource sponsorship to increase lethality.

PEOPLE
Support and sustain the people and program offices located at Joint Base Langley Eustis (PM TAPO, PM MELB); in Orlando (PM STS); and MacDill (PM SKR).
Rotary Wing Network

Tenets of Success
1. Speed
2. Risk tolerance
3. Scale
4. Inclusivity
5. Relationships

PEO RW USSOCOM
(Resource Sponsor)

USASOC
SIMO
(Capability Sponsor)

160th SOAR (A)
Operators

PM SKR/PM TAPO/PM STS/PM MELB
(Materiel Developer)

Other Services
Army Staff
AMCOM
USAACE
RDECOM
Industry Partners

DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE
Program Executive Office Rotary Wing (RW)

MOBILITY
- A/MH-6 Light Attack/Assault
- Medium Assault MH-60
- Heavy Assault MH-47
- Airframe Recapitalization

MISSION EQUIPMENT
- Active Aircraft Survivability Equipment
- Passive Aircraft Survivability Equipment
- Avionics
- Sensors
- Silent Knight Radar
- Common Hardware and Software

TRAINING SYSTEMS
- A/MH-6M Little Bird
- MH-47G CMS
- MH-60M CMS
- Battle Staff Training Exercise Management Control
- Stimulated vs Simulated
Rotary Wing Road Map*

**Mission**

- **Near Term (Prior to FY 21)**
- **The POM Years (Fiscal Year 21-25)**
- **The Extended Planning Period Years (Fiscal Year 26-34)**
- **Beyond the EPP (Fiscal Year 35 – beyond)**


**Light Attack /Assault A/MH-6 MELB (51)**

- **Block 2.2**
- **Block 3.0**
- **Block I**
- **Block 2**

**Attack/Assault MH-60M (72)**

- **Heavy Assault MH-47G (69)**

**DP: FVL (L) CAPSET 1**

- **FVL (L) CAPSET 3**
- **FVL (M) CAPSET 3**
- **FVL (M) CAPSET 1**

- **MELB-X**
- **Divest**
- **Divest Legacy MH-47G (61)**

**Near Term (Prior to FY 21)**

- **IR Suppressor**
- **LIRCM**
- **Silent Knight Radar (SKR)**

**The POM Years (Fiscal Year 21-25)**

- **DP: Block 3.1 or FVL (L) CAPSET 1**
- **LIRCM**
- **Silent Knight Radar (SKR)**

**The Extended Planning Period Years (Fiscal Year 26-34)**

- **DP: Block 3.1 or FVL (M) CAPSET 3 or SLEP**
- **Next Gen Attack/Assault**

**Beyond the EPP (Fiscal Year 35 – beyond)**

- **H-47 BLK II G (69)**

*This Road Map is Pre-decisional and subject to change*

**DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE**
Mobility

- A/MH-6M Mission Enhanced Little Bird Block 3
- MH-60M Blackhawk Block 1
- MH-47G Chinook Block II Renew Program
A/MH-6M Mission Enhanced Little Bird
A/MH-6 Activities

Block 2.2 upgrade execution
• Improves crew safety

Block 3.0 upgrade
• Improves safety margin
• Improves flight controls
• Improves cockpit
MH-47G Activities

Block II Renew
• Modernization and Recap program for the remaining 61 legacy airframes
• Executed in collaboration with the Army’s CH-47F Block II effort

Development efforts
• Advanced Parallel Actuator System (APAS)
• Engine Barrier Filter

Balance between leveraging Army & meeting SOF-unique requirements
MH-60M Blackhawk
MH-60M Activities

Block 1.0 upgrade execution
• Greater directional margin
• Airborne Mission Networking
• Degraded Visual Environment
• DC Powered Mini-gun System
• Sustaining engineering
Mission Equipment Activities

**Aircraft Survivability Equipment:**
- IR Countermeasure Development
- RF Countermeasure Enhancements
- Ballistic Protection

**Sensors and Weapons:**
- Degraded Visual Environment Development
- Improved RW Electro Optical Sensor (IRES)

**Avionics:**
- Tactical Airborne Network Integration
- Mission Processor Upgrades

**Sustainment:**
- Sustain operational availability
- Control sustainment costs of mission equipment
# Acquisition Tools Across the Life Cycle

**Drivers to Platform Modification**

- **Commanders Intent**
- **New Requirement**
  - Mission
  - Threat
- **New Inventions / Innovations**
- **Sustainment / Obsolescence / Tech Refresh**
- **Air Safety / Airspace Mandates**

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<th>FY18</th>
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**Mods and Upgrades**

**Low Cost Modifications**

**Block Upgrade / Renew**

**PM’s must work closely with Combat Developers / Resourcers, and Industry to Synchronize**

- SOFWERX
- Prize Challenge
- CRADA / OTA
- RIF / Engineering Analysis
- BAA / Unsolicited Proposals
- SBIR
- CMNS / JUONS
- Combat Evaluation
- SIMO / AMSO Project
- SOCREB / POM
- DOD / Service S&T
- DOD / Service POR
- Man Tech

**S&T / Agility**

**Traditional SOCOM**

**Traditional Service**

**Life Cycle Sustainment**
Science and Technology Areas of Interest

- Value Engineering on fielded systems
- Augmented and Virtual Reality
- Distributed Simulations and Training
- Platform Signature Management
- Aircraft Weight Reduction
- Unmatched Ballistic Protection
- Capabilities to Sufficiently Execute Countering Weapons of Mass Destruction (CWMD)
- Precision Guided Munitions/Scalable Effects Weapons
- Robust Communications
- Other than RF Communications
- Anti-Access/Area Denial (A2/AD)
- Intelligence, Surveillance, & Reconnaissance (ISR)
- Cyber Security
- Leap Ahead Power & Energy Systems
- Distributed Simulations & Training
- Improved Data Management & Crew Workload Management
- Assured Precision Navigation and Timing

Review opportunities—Submit your idea:
https://www.socom.mil/SOF-ATL/
https://www.sofwerx.org/
https://www.fbo.gov/

“Somewhere something incredible is waiting to be known.”
—Carl Sagan
Near-Term Opportunities

Aviation Maintenance Modernization Capability Collaboration Event
20-21 June 2018
https://www.sofwerx.org/aviation/

Special Operations Forces Aviation Systems Trainers - Enhancements (SOFAST-E II) Industry Day
Nov/Dec 2019
https://www.fbo.gov/

Improved Rotary Wing Electro-Optical Sensor (IRES) Request for Proposals
2019
https://www.fbo.gov/
PM SOF Training Systems Portfolio

- Combat Mission Simulators
- Desktop Trainers
- 160TH SOAR(A) Contractor Support
- Virtual Mission Rehearsal
- Engagement Skills Trainer
- Soldier Monitoring System
- Intelligence and Electronic Warfare Tactical Proficiency Trainer
- CALL FOR FIRE TRAINER II
- CALL FOR FIRE TRAINER IIIPLUS
- CALL FOR FIRE TRAINER III
PM STS (Air) procures and maintains high fidelity and fully mission capable MH-47G, MH-60M, A/MH-6 Combat Mission Simulators (CMS), two Universal Mission Simulators (UMS), and ancillary training devices for the 160th Special Operations Aviation Regiment Airborne (160th SOAR)(A). These CMSs must meet concurrency with the aircraft and provide realistic, full-spectrum, training and mission rehearsal capabilities.
Current Focus and Key Efforts

Focus
• Robust Common Technical Baseline
• Concurrency
• Interoperability

Key Efforts
• MH-47-2 Full Operational Capability (FOC) July 17
• MH-60-2 projected FOC June 18
• SOFAST-E Delivery Order 06 projected completion June 19
  – Common Architecture Avionics System
  – Updated terrain database
  – Desk Top Trainer/Cockpit Aircrew Part Task Trainer
  – Risk Management Framework Compliance (Windows 10 Operating System)
Planning Schedule

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In Progress Competitive Action – SOFTEAMS III

This effort requires non-personal technical service support for the 160th SOAR(A) Training Aids, Devices, Simulators and Simulations and associated support systems/equipment to include Integration Labs, test beds, networks, cyber security, and hardware/software documentation configuration management to maintain devices for operational readiness.

ACQUISITION STRATEGY
- SDVOSB Limited Competition
- Operations and Maintenance Funded (O&M)
- Proposals received
- Source Selection in-progress

PERIOD OF PERFORMANCE
- FY20-24
- Base + 4 Option Years

MILESTONES
- Award January 2019
- Option Years awarded annually

POINT OF CONTACT
- Mrs. Marnita Harris, Contracting Officer, U.S. Army Contracting Command – Orlando Bravo Division, (407) 208-3294, Marnita.r.harris.civ@mail.mil

FUNDING
- Estimated total contract value: $41.5M

CURRENT CONTRACT/OEM
- SOFTEAMS II
- Incumbent – Nova Technologies, LLC
Future Competitive Action - SOFAST-E II

Contractor tasks for the modifications to be made to the Special Operations Aviation suite of Combat Mission Simulators (CMSs), to include the Light Assault/Attack Reconfigurable (LASAR) A/MH-6M CMS, the MH-60M CMSs, and the MH-47G CMSs located at the 160th Special Operations Aviation Regiment [SOAR(A)] Fort Campbell, KY. This includes all peripheral equipment and capabilities that support live, virtual, and constructive training including the Mission Rehearsal Environment Training Simulation (MRETS), Storage Area Network (SAN), Desk Top Trainers (DTT)/Cockpit Avionics Procedure Trainer (CAPT), and associated systems.

ACQUISITION STRATEGY
- Competitive
- Procurement (PROC) funded

PERIOD OF PERFORMANCE
- Multiple Delivery Orders thru FY24

MILESTONES
- Request for Proposal 2nd QTR FY19
- Award September 2019

POINT OF CONTACT
- Mr. Brian Serra, Contracting Officer, U.S. Army Contracting Command – Orlando Bravo Division, (407) 208-3357, brian.d.serra.civ@mail.mil

FUNDING
- Estimated total contract value: $60-$70M

CURRENT CONTRACT/OEM
- SOFAST-E
- Incumbent – Veraxx Engineering Corp
Future Areas of Interest

- **Distributed Interactive Simulation to enable:**
  - Connection over the Special Operations Forces Training Enterprise Network (STEN)
  - Joint training capability
  - Standardized protocols and databases/Risk Management Framework compliance

- **Leverage FY17 Proof Concept to mature Augmented Reality/Virtual Reality (AR/VR) training capabilities focused on:**
  - Mission rehearsal
  - Maintenance procedures
  - Integration into existing Combat Mission Simulators

- **Include Next Generation Motion Systems in SOFAST-E II to yield:**
  - Electric and/or electromagnetic actuators
  - Space, weight, and power efficiencies
  - Cost savings
Questions