SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Accelerating SOF Innovation

Program Executive Office
Rotary Wing
Schedule of Presentations

Day 1 – Tuesday
21 May 2019

1330 - 1530
PEO RW
Strategic Overview

1600 - 1630
PEO One-on-One Sessions

Day 2 – Wednesday
22 May 2019

1330 - 1500
Abbreviated PEO Overview
Rotary Wing PM Panel

1530 – 1600
PEO One-on-One Sessions
STRATEGIC OVERVIEW
PROGRAM EXECUTIVE OFFICE
ROTARY WING

COL David Phillips
Program Executive Officer
Perspective
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).
National Defense Strategy – Why We Are Here

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.

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…shed outdated management practices and structures while integrating insights from business innovation.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.

Requires a Government and Industry Partnership
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.

Sustain current operations, preserve and grow readiness.

Strategic resource sponsorship to recapitalize our fleet, increase lethality and survivability, and innovate for future threats. Relentlessly build the competitive advantage.

Support and sustain the people and program offices, while preserving our force and family.
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
- Common Hardware and Software

TRAINING SYSTEMS
- A/MH-6M (Little Bird) CMS
- MH-47G CMS
- MH-60M CMS
- Mission Rehearsal Exercise Training System (MRETS)
- Stimulated vs Simulated

S&T
- Army JMR Tech Demonstrators
- Next Generation Mobility
- Training / Virtual Reality
- Data Science
- Future Investments

DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE
SOF Rotary Wing Platform Roadmap

Near Term
(Prior to FY 21)

2016-2020

Light Attack /Assault
A/MH-6 MELB

Block 2.2

IR Suppressor

Block 3.0

Lightweight IR Countermeasure

The POM Years
(Fiscal Year 21-25)

2021-2025

MH-60L DAP (CAAS)

Block 1

New Terrain Following / Terrain Avoidance Radar

DP: FLRAA or MH-60M Block 3.0

Block 2

Degraded Visual Environment (DVE)

Common IR Counter-Measures (CIRCM)

Next Gen Survivability System

Next Gen Cockpit Management System

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

2026-2034

MH-60M Block 3.0

Future Little Bird

FVL (Future Attack Reconnaissance Aircraft)

Future Long Range Assault Aircraft

FVL (Future Long Range Assault Aircraft)

MH-60M Block 3.0

Beyond the EPP
(Fiscal Year 35 – beyond)

2035 - Beyond

Smaller Fleet or Divest

MH-47G Renew

New Terrain Following / Terrain Avoidance Radar

FVL (Future Long Range Assault Aircraft)

MH-47G

Heavy Assault

MH-47G

Light Attack /Assault

A/MH-6 MELB

Block 3.1 or FARA

Milestone (IOC)

Milestone (FOC)

Decision Point

SOF

Army

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Mobility

A/MH-6M Mission Enhanced Little Bird Block 3

MH-60M Blackhawk Block 1

MH-47G Chinook 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 legacy airframes
- Executed in collaboration with the Army

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

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

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

Aircraft Survivability Equipment:
• IR Countermeasure Development
• RF Countermeasure Improvements
• Ballistic Protection

Sensors and Weapons:
• Degraded Visual Environment Development
• Improved RW Electro Optical Sensor (IRES)
• New Terrain Following / Terrain Avoidance Radar

Avionics:
• Tactical Mission Network Integration
• Mission Processor Upgrades

Sustainment:
• Sustain operational availability
• Control sustainment costs of mission equipment
SOF Modernization

**Capability Focus Areas**
- Human Interface
- Next-Generation Intelligence, Surveillance & Reconnaissance (ISR) / Tactically Relevant Situational Awareness
- Network & Data Management
- Next-Generation Effects/Precision Strike

**Cross Cutting Technology Areas**
- Hyper-Enabled Operator
- Next-Generation Mobility

Rotary Wing Interest Areas:
- Mission Simulation and Training
- RF Convergence
- Next Generation Cockpit
- Total Situational Awareness
- Assured Communications
- Robust Survivability
- Optimal Manning
- Rotor Speed Efficiency
- High Efficiency Power Sources
Acquisition Tools Across the Life Cycle

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

- **Commanders Intent**
- **New Requirement**
  - Mission
  - Threat
- **New Inventions / Innovations**
- **Sustainment / Obsolescence / Tech Refresh**
- **Air Safety / Airspace Mandates**
- **SOFWERX**
- **Prize Challenge**
- **CRADA / OTA**
- **RIF / Engineering Analysis**
- **BAA / Unsolicited Proposals**
- **SBIR**
- **CMNS / JUONS**
- **Combat Evaluation**
- **SIMO / AMSO Project**
- **MTA / SOCREB / POM**
- **DOD / Service S&T**
- **DOD / Service POR**
- **Man Tech**

**DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE**
Tenets of Success / Debunking Myths

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

1. Big programs
2. No requirements
3. Different funding
4. No testing
5. Always Successful
We Need Creative Solutions from Industry

- Decrease “flash-to-bang” time on delivering systems to the Warfighter
- Increase speed of responding to RFPs
- Reduce unproductive portions of procurement lead-time
- Reduce lead times for weapon system procurement
- Offer ways to hyper-enable aircrews and operators
- Integrate federated, complementary systems to aid in rapid, decisive decision-making
- Explore future RW capabilities; support FVL development
- How can we make what we have more effective?

What Congress and DoD authorized
- Middle Tier Acquisition (MTA)
- Other Transaction Agreements (OTA)
- Cooperative Research & Development Agreements (CRADA)
- Empowered/Decentralized Decision Authority

What can Industry do?
- Contract response timelines?
- Pricing timelines?
- Levels of oversight?
Near-Term Opportunities

Upcoming SOFWERX Events

https://www.sofwerx.org/aviation/

Special Operations Forces Aviation Systems Trainers - Enhancements (SOFAST-E II) Industry Day

June / July 2019

https://www.fbo.gov/
“We’ve been fortunate to have an amazingly consistent leadership philosophy for the last 20 years: Clearly communicate your expectations for risk management and empower the team to make decisions at the appropriate level.”

James H. Smith, U.S. Special Operations Command Acquisition Executive, February 2018