EXPANDING THE COMPETITIVE SPACE
SPECIAL OPERATIONS FORCES VIRTUAL INDUSTRY CONFERENCE

Mr. Geoff Downer, SES, Program Executive Office
ROTARY WING
Schedule of Virtual Presentations

**Wed**
13 May 2020
1415-1515

**PEO RW**
Strategic Overview

**Thu and Fri**
14 May 2020 1000-1600
15 May 2020 0800-1200

**PEO One-on-One Sessions**
15 Minute Increments
COVID 19

• Thank You for your steadfast progress despite COVID-19 obstacles & constraints

What has changed:
• Continuous assessment of the helicopter industrial base and their supply lines
• We have reached out to the prime vendors and SOFSA; they remain open and production continues
• Stimulus package approved with funding supporting the Defense Industrial Base
PEO Rotary Wing Acquisition Chain of Command

PEO-RW is entry point for Congressional, OSD, & SOCOM HQ RFIs. Entry point for new technology briefs and S&T funding.

Synergies gained by having dual PEO/Execution responsibilities

PM TAPO/PM SBUD performs day to day execution of SOF RW programs and funding.

PEO-RW is responsible for providing rapid and focused acquisition, research and development, and life-cycle logistics support to the operators of the US Army Special Operations Aviation Command and the 160th Special Operations Aviation Regiment, which provides SOF rotary-wing capability to the joint force.
Army Special Operations Aviation Acquisition Team

Relationship Enables:
- Customer Focus
- Access to Operation Expertise
- Proximity to User
- Access for Decisions
- Continual Team Syncs
- Real Time Trades
- Government Integration
- Responsiveness

US Army Special Operations Aviation Command
(Capability Sponsor)
FT Bragg, NC

Systems Integration Management Office (SIMO)
(User Rep / Requirements)
FT Campbell, KY

TAPO
(Materiel Developer)
FT Eustis, VA

US Army Aviation & Missile Command (AMCOM),
Director, Special Programs (Aviation) / (Milestone Decision Authority)
FT Eustis, VA

PEO Rotary Wing

Daily / Continual coordination with dedicated user representative (SIMO), Component Resource Sponsor (ARSOAC), and Title 10 Headquarters (PEO-RW & PEO-FW @ USSOCOM)
Program Executive Office Rotary Wing (RW)

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

**MISSION EQUIPMENT**
- Active Aircraft Survivability Equipment
- Passive Aircraft Survivability Equipment
- Avionics
- Sensors

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

**S&T**
- Combined Efforts with FVL CFT
- FARA
- FLRAA
- Training / Virtual Reality
- Data Science
- Future Investments

**Airframe Recapitalization**
**Common Hardware and Software**
**Stimulated vs Simulated**
SOF Rotary Wing Platform Roadmap

**Near Term (Prior to FY 21)**
- Block 2.2
- Light Attack /Assault A/MH-6 MELB

**The POM Years (Fiscal Year 22-26)**
- Block 3.0
- MH-60L DAP (CAAS)
- SKR Terrain Following / Terrain Avoidance Radar
- Weight Reduction initiatives

**The Extended Planning Period Years (Fiscal Year 26-34)**
- Block 1
- Improved Turbine Engine Program
- Next Gen Cockpit Management System (TBD)

**Beyond the EPP (Fiscal Year 35 – beyond)**
- Block 3.1 or FARAA
- FPV (Future Long Range Assault Aircraft)
- MH-47G Renew
- MH-60M Block 3.0
- Skr Terrain Following / Terrain Avoidance Radar

**Decision Points**
- IOC
- FOC

**Milestones**
- Joint
- SOF

**Timeline**
- 2016-2020
- 2021-2025
- 2026-2034
- 2035 - Beyond

**Other Programs**
- MH-60M Block 3.0
- AAS
- Future Little Bird
- FVL (Future Attack Reconnaissance Aircraft)

**Fleet Decisions**
- Divest Legacy MH-47G
- MH-47G Renew
- MH-60M Block 3.0

**Programs**
- MH-60M
- MH-47G

**Decision Points**
- IOC
- FOC

**Roadmap**
- 2016-2020
- 2021-2025
- 2026-2034
- 2035 - Beyond
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

61 Legacy/Sheetmetal Airframe Structure
8 Machine Airframe Structure (New Build - FY15/16)
Max Gross Wt (54,000 lbs)

Extended Range (Fat Tank)
Aerial Refueling Probe
Lightweight Ballistic Armor
SirFC Aircraft Survivability Equipment
Multi-Mode Radar
Fast Rope Capable (Fore & Aft)
Forward Hydraulic Hoist
G2 Electro-Optic/Infrared Sensor
IES-47 Engine Suppression
Secure Real-Time Video (SRTV)
AVR-2B* Laser Threat Detection
Expanded Communications Suite
CAAS Cockpit
Digital ICS / AWIS**

Army Common
SOF Unique
*H47BLK II Common

All Expanded Gunner’s Window
M240 (x2) / M134 (x2) machine guns

Weapons Auxiliary
Support Package

Side Facing Gunner’s Seat
Machined Cockpit
Structure (Long Nose)

Standardized Engines

Forward & Rear Air
Transporatbility Kit*
Fuel Jettison

Digital Auto Fit Control
System (DAFCS)
Common Missile
Warning System

Balance between leveraging Army & meeting
SOF-unique requirements

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MH-60M Activities

Block 1.0 upgrade execution
• Greater directional control
• Tactical Mission Networking
• Degraded Visual Environment
• DC Powered Mini-gun System
• Weight Reduction Initiatives
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 Capability

Avionics:
- Tactical Mission Network Integration
- Mission Processor Upgrades

Sustainment:
- Sustain operational availability
- Control sustainment costs of mission equipment
Future Vertical Activities

**FLRAA:** Aerial Refueling; Transportability, Terrain Following-Terrain Avoidance (TFTA)

**FARA:** Aerial Refueling; Transportability and Passenger Payload/Carry (Internal & External)

**MOSA:** ARSOA MOSA enabled Common Cockpit Analysis; MOSA Cyber Security Analysis

**ALE:** ALTIUS-600 integration onto H-60 in support of X-Convergence Demo and Regimental ALE Requirement

**Intent:** Integrate USSOCOM equities and requirements into the service-common development of a Multi-Service FVL aircraft.
Rotary Wing Interest Areas

- Mission Simulation and Training
  - Immersive Leader/Aviator Training and Development
- Next Generation Cockpit
  - Total Situational Awareness/Tactically Relevant Situational Awareness
- Modular Open Systems Architecture
  - Ensure Compatibility with SOF capability
- Assured Communications, Navigation and Timing
  - Spectrum Adaptive Agility
- Improved Survivability
  - Multi-spectral solutions
- Enduring Fleet Capability Restoration and Enhancement
  - Payload Restoration
- Air Launched Effects
  - Increased Interoperable Capability
- Precision Strike
  - Improved Lethality and Range
QUESTIONS