SOA AIRCRAFT AND MISSIONS

MH-47 Heavy Assault Helicopter

Mission:
- Precision Air Assault
- Transport Array of Payloads
- Resupply
- Infiltration/Exfiltration
- CASEVAC

Capability:
- Terrain Following/Avoidance
- Rescue Hoist
- Aerial Refuel

Armament:
- M134 7.62mm Mini-guns
- M240 7.62mm Machine gun

MH-60 Medium Assault/DAP Helicopter

Mission:
- Precision Air Assault
- Infiltration/Exfiltration
- CSAR/Resupply

Capability:
- Terrain Following/Avoidance
- Aerial Refuel
- Fast Rope
- Rescue Hoist

Armament:
- M134 7.62mm Mini-guns

A/MH-6M Light Assault/Attack Helicopter

Mission:
- Precise Air Assaults
- Infiltration/Exfiltration
- Reconnaissance

Capability:
- External Personnel Pods
- Fast Rope

Armament:
- M134 7.62 mm Mini-guns
- M230 30 mm Chain-gun
- Hellfire / 2.75” Rockets
### ROADMAP

<table>
<thead>
<tr>
<th>Programs</th>
<th>FY14</th>
<th>FY15</th>
<th>FY16</th>
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Programmed
MH-47G CONFIGURATION

Legend:
CH-47F Common
SOF Provided

Legend:
CH-47F Common
SOF Provided

UNCLASSIFIED
MH-47G ACTIVITIES

• Block 2.3 execution
• +8 New Build execution
• Sustainment cost drivers
• Development Efforts
  – Advanced Parallel Actuator System (APAS)
  – Engine Barrier Filter
  – Advance Common Rotor Blade (ACRB)
Heavy Assault

**New Build / MH-47G MOD Line**

**MH-47G MOD Line / H-47 BLK II G-models**

**H-47 BLK II G-models**

**H-47 Block II/III G Models Until FVL Heavy**

**MISSION**

(FY14-16)
(Near Term)

(FY17-21)
The POM Years

(FY22-30)
The EPP Years

(FY31 – Beyond)
Beyond the EPP

**MH-47 CONFIGURATION ROADMAP**

**MH-47G New Build**
Final New Build
Delivery FY16

**MH-47G Mod Line**
Final Mod Line
Delivery FY18

**MH-47 G-models**
First H-47 BLKIIIG
Delivery FY19

**H-47 BLK II Technology Inserts**

- Advanced Common Rotor Blade
- Improved Drive Train
- Engine Barrier / Reliability Drivers
- Active Parallel Actuator System

Philadelphia, PA

Lexington, KY

Philadelphia, PA
MH-60 PROGRAM
MH-60M CONFIGURATION

Comm / Identification Suite:
- ARC-201D
- Digital ICS
- APX-118 IFF
- 4x ARC-231 (2 SATCOM Capable)
- ARC-220
- MTX Blue Force Tracker

DAP Weapons:
- LASS Wing
- M230 30 mm Chain Gun (up to 2)
- M299 Hellfire (up to 16)
- M261 Rockets (up to 4 19-shot pods)
- M134 Miniguns (2)

Fuel Management Suite:
- Internal 185/200 Gallon Auxiliary Tanks
- Fuel Dump

Structural Mods to increase GW to 24,500lbs

Legend:
UH-60M Common
SOF Provided
MH-60 ACTIVITIES

- MH-60M production execution
- MH-60K divestiture execution
- Sustainment cost drivers
- Block 1 upgrades
A/MH-6 ACTIVITIES

• Block 2.2 upgrade execution
  – Improves crew safety

• Block 3.0 upgrade planning
  – Improves payload
  – Improves speed
  – Improves cockpit
  – Improves flight controls
A/MH-6M

SOF Developed Equipment

UNCLASSIFIED

- Improved Tail Boom and T/R Drive System
- Cambered Vertical Fin

RRA 250C-30R/3M w/ FADEC

- 6 Bladed M/R
- Improved Engine Inlet and IBF

IBF Filter Minder

- Better Engine Inlet and IBF
- Digital CMS

- AN/ZSQ-3 FLIR

Crashworthy/0.50 cal Ballistic Tolerant Main Fuel Tanks

- 4700 lb Landing Gear

- Improved Avionics Back-up Battery Charger/Tester

- Ground Handling Wheels

- Auxiliary Fuel Tanks

- External Conformal Fuel Tanks

- Fast Rope Release System

- Enlarged Aft Cargo Doors & Opening

- Improved Tail Stinger

- MARK IV Rails Lightweight AH and MH Plank Systems

- Boeing MELB Kit

- Army Common Equipment
  - AN/ARC-231 Radio
  - AN/APX-123 IFF

AN/ZSQ-3 FLIR

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- 4700 lb Landing Gear
AIRCRAFT TECHNOLOGY INTERESTS

- Light weight fuel cell - maintaining ballistics and crashworthy characteristics
- Lighter weight cabin sound proofing/thermal protection
- Infrared Countermeasures
- Conformal multiband antennas
- Low volatility lithium battery
- Transparent, curved, light, ballistic materiel
QUESTIONS
TRAINING SYSTEMS

ROTARY WING
SOF AVIATION PRIORITIES AND INITIATIVES

• User’s Priorities:
  – Available, Concurrent, Interoperable

• Future Competitive Actions:
  – Special Operations Forces Aviation System Trainers – Enhancements
    (SOFAST-E => RFP o/a 4th Qtr FY16; major system upgrades)
  – Special Operation Forces Training, Engineering, and Maintenance Services
    (SOF TEAMS III => RFP o/a 3rd Qtr FY17; life-cycle sustainment)

• Areas of Interest:
  – Collective Training Capability
  – Hardware / Software Commonality => Stimulation vs Simulation
  – Real-time database generation tools
• Simulation doesn’t replace Live Training – It Maximizes it!

• Simulation offers a wide variety of benefits to Training and Operations

• PM SOF Training Systems manages a diverse portfolio of projects that supports the SOF community
QUESTIONS