AGENDA

- Mission
- Achievements
- SOF Acquisition Team
- PEO Support
- SOF Rotary Wing Programs
- PEO Contact Info
- Way Ahead
MISSION

Provide acquisition oversight management for Rotary Wing Systems in USSOCOM. Support all stakeholders in Rotary Wing Acquisition process to provide cutting edge capabilities to the SOF Community.
The Year In Review

SOF Acquisition Team deliveries and major events:

- 12 MH-47G aircraft delivered to the 160th SOAR
- 18 A/MH-6 Block 2.0 Upgrade completed and returned to the 160th SOAR
- 20 MH-60 aircraft inducted in the SOFSA production line
- 5 MH-60Ms fielded in support of training
- 12 SIRFC shipsets delivered to the 160th SOAR
Special Operations Research, Development and Acquisition Center (SORDAC)

Director/Acquisition Executive
Mr. Cluck

Deputy Director for Acquisition
Mr. Geurts

Military Deputy for Acquisition
COL Miller

Joint Acquisition Task Force
Agile Dagger – Mr. Fields
Dragon Spear – Maj Blauser

Directorates
Director of Resources & Analysis
Mr. Koufas

Director of Science & Tech
Mr. Shepherd

Director of Procurement
Col Bergo

Director of Acquisition Comptroller
Mrs. Iverson

Program Executive Offices
PEO Fixed Wing
Col Richardson

PEO Maritime
CAPT Blank

PEO Rotary Wing
COL Rombough

PEO SOF Warrior
COL Smith

PEO SRSE
Mr. Richardson

PEO SOFSA
COL Chyma

PEO C4
Mr. Davis

Agile Dagger
Mr. Fields

Dragon Spear
Maj Blauser
Equip the Soldiers and Airmen of the 160th SOAR(A) and 6th SOS with the most capable rotary wing aircraft in the world.

Facilitate sustainment of the modified and/or unique aircraft provided to the 160th SOAR(A) and 6th SOS.
PEO Support

• Quality Equipment Fielded as Quickly as Possible
  – Aviation Warfighter is the First Priority
  – Quality is Better than Quantity

• Single Point of Contact within USSOCOM
  – Provide Management Oversight
  – Provide Program & Financial SMEs

• Build/Foster Relationships
  – Within the SOF Community
  – Leverage Army Aviation
  – Liaison to Congress

• Future of SOF Vertical Lift
  – Next Generation Aircraft
Acquisition Principles

• Deliver capability to the user expeditiously

• Exploit proven techniques and methods

• Keep Warfighters involved throughout the process

• Take risk and manage it!

ACCELERATE THE FORCE
PEO Rotary Wing

Sensors

Aircraft Survivability

MH-60M

Mi-17 NSRW

MH-47G CMS

CAAS

YMQ-18A

MH-47G

A/MH-6M CMS

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Avionics/Navigation

Ballistic Protection

A/MH-6M
SOF RW Capabilities

A/MH-6M MELB
Mission Equipped Little Bird (MELB)
Light Attack/Assault
* 6 Combat Equipped Troops (Assault)
* Cruise Speed: 90 knots
* Max Gross Weight: 4,700 lbs
Rapidly Deployable
Shipboard Operations
Surgical Point Insertion
Aerial Reconnaissance
Close Air Support
Reconfigurable Armament (Attack)

MH-60M Blackhawk
Medium Assault
* 9 Combat Equipped Troops
* Cruise Speed: 140 knots
* Max Gross Weight: 24,500 lbs
* Ext Loads: 9,000 lbs
Aerial Refuel Capable
Suppressive Fire Capability
Resupply
Advanced Aircraft Survivability Equipment
Defensive Armed Penetrator (DAP)
Reconfigurable Armament
Armed Escort & Close Air Support

Mi-8/17
Medium Assault
* 32 Combat Equipped Troops
* Cruise Speed: 130 knots
* Max Gross Weight: 28,600 lbs
* Ext Loads: 10K lbs
Troop Movement
Resupply

Mi-8/17
Medium Assault
* 32 Combat Equipped Troops
* Cruise Speed: 130 knots
* Max Gross Weight: 28,600 lbs
* Ext Loads: 10K lbs
Troop Movement
Resupply

MH-47G Chinook
Heavy Assault
* 44 Combat Equipped Troops
* Cruise Speed: 120 knots
* Max Gross Weight: 54,000 lbs
* Ext Loads: 25K lbs tandem & 26K lbs center hook
Aerial Refuel Capable
Suppressive Fire Capability
Resupply
Advanced Aircraft Survivability Equipment

YMQ-18A Hummingbird
Unmanned Aerial System
Multi-role Missions (ISR/Re-Supply)
* Gross Weight: 5500 lbs
* Payload: 2500 lbs
* Range: 2250 NM
* Endurance: 18.7 hrs w/300 lbs
  12.1 hrs w/532 lbs
  8.1 hrs w/1000 lbs
* Speed: 142 kts
* Ceiling: 20000 ft
Component Recapitalization

Rebuilt Airframe Structure (New Elect. Wires/ Hydraulic Lines)
Improved Bilge Paint & Corrosion Protection

Standardized Engines (T55-GA-714A)

zAircraft Max Gross Wt (54,000 lbs)

New Electro-Optical Sensor System (EOSS FLIR)

Rescue Hoist
Aerial Refuel Probe

New-Build Nose/Cockpit Structure

Common Avionics Architecture System (CAAS) Cockpit

Suite of Integrated Radio Frequency Countermeasures (SIRFC)
AN/AVR-2B Laser Detection System
Multi-Mode Radar (MMR)
Infrared Exhaust Suppressors (IES-47)
XM-216 Dark Flares

Expanded Left-forward Gunner’s Window
Standardized Extended Range (Fat Tank) Configuration

Aircraft Max Gross Wt (54,000 lbs)

Common Missile Warning System (CMWS) w/ Improved Countermeasures Dispenser

Improved Bilge Paint & Corrosion Protection
Rebuilt Airframe Structure (New Elect. Wires/ Hydraulic Lines)
Component Recapitalization

WHITE = Army Provided
RED = SOF Unique
YELLOW = SOF Driven-Tested / Army-Adopted

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MH-60M BLACKHAWK
24,500 Pounds

NEW Airframe and Dynamic Components

Active Vibration Control

Wide Chord Blades

2500 SHP YT706-GE-700 Engines

Dual Digital Automatic Flight Control System

Aerial Refuel Probe

Electric External Rescue Hoist

Common Avionics Architecture System (CAAS) Cockpit

60 KVA Generator

AN/ZSQ-2 Advanced Electro-Optic Sensor System (EOSS FLIR)

Cockpit Suite of Integrated Radio Frequency Countermeasures (SIRFC)

XM-216 Dark Flares

Common Missile Warning System (CMWS) w/Improved Countermeasures Dispenser

Multi-Mode Radar

AN/AVR-2B Laser Detecting Set

UNCLASSIFIED

WHITE = Army Provided

RED = SOF Provided

YELLOW = SOF Driven-Tested / Army-Adopted
A/MH-6M MELB
4,700 Pounds

- 6 Bladed Main Rotor System
- 4 Bladed Tail Rotor System
- MARK IV Rails
- FLIR A-Kit
- Improved Engine Inlet and Inlet Barrier Filter (IBF)
- WD-6 Digital Cockpit Management System (CMS)
- Crashworthy/0.50 Caliber Ballistic Main Fuel Tanks
- External Conformal Fuel Tanks
- Allison 250C-30R/3M w/ FADEC 600shp Transmsn/Drive Sys (30 min.)
- Cambered Vertical Fin
- Enlarged Aft Cargo Doors & Opening
- Improved Tail Stinger
- Lightweight AH and MH Plank Systems
- Fast Rope Release System (FRIES)
- 4700 lb Landing Gear

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### Aircraft Characteristics and Performance

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
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<tbody>
<tr>
<td>Rotor Diameter</td>
<td>69.9 ft</td>
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<tr>
<td>Fuselage Length</td>
<td>59.7 ft</td>
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<tr>
<td>Fuselage Width</td>
<td>8.2 ft</td>
</tr>
<tr>
<td>Height</td>
<td>18.2 ft</td>
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<tr>
<td>Disc Area</td>
<td>3,830 sq ft</td>
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<tr>
<td>Empty Weight</td>
<td>15,685 lb</td>
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<tr>
<td>Loaded Weight</td>
<td>24,500 lb</td>
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<tr>
<td>Max Takeoff Weight</td>
<td>28,660 lb</td>
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<tr>
<td>Max Flight Speed</td>
<td>156 mph</td>
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<tr>
<td>Cruise Flight Speed</td>
<td>149 mph</td>
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<tr>
<td>Hover Ceiling Out of Ground</td>
<td>13,000 ft</td>
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<tr>
<td>Service Ceiling</td>
<td>16,000 ft</td>
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<tr>
<td>Range with Normal Payload</td>
<td>345 nm</td>
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</table>
YMQ-18A HUMMINGBIRD
5,500 Pounds

High Fuel Fraction
Hingeless Rigid Rotor
Lightweight, Stiff Graphite Composite Blades
Advanced Airfoil
Light Detecting & Ranging (LIDAR)
Hellfire or Javelin Missiles
Radar
Forester
Multi Stage Transmission
Composite Nose Cone and Fuselage
Ku/Ka Wideband SATCOM Data Links
400 Gallons Fuel
Optimum Speed Rotor Adjusts RPM 200 to 400
Combat Mission Simulators

MH-47E CMS

MH-47G CMS

A/MH-6M Little Bird

MH-60K CMS

Battle Staff Training System

MH-60L/M CMS

“SimAuthor”
Flight Data Analysis & Visualization

“CAAS” Desktop Trainers

“SOF TEAMS”

Direct Support Maintenance

Aquatics Training Facility (Dunker)

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ROTARY WING
Way Ahead
Planning for the next five years:

• MH-60M fielding
• MH-47G Plus 8
• MH-47 2.3 Block Upgrade
• A/MH-6 3.0 Block Upgrade
• Hostile Fire Indicating System (HFIS)
• Aircraft Occupant Ballistic Protection System (AOBPS)
• Reduce Optical Signature Emission Solution (ROSES)
• Secure Real-Time Video (SRTV)
• Upgrade Legacy Simulators
• Research Technology for Degraded Visual Environment (DVE)
Questions