





PM CARGO Helicopters

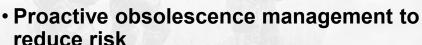


Program Update

- Final 5 CH-47F US aircraft in production
- CH-47F Block II EMD activities complete; MS C FY25
- Congressional CH-47F Block II aircraft procurement 2020-2024
- First production representative CH-47F Block II accepted by USG
- Global demand for CH-47F Block II is increasing

Supply Chain Concerns

- Supply Chain
 - Second source opportunities
 - -Increasing raw material costs and lead time for parts drive cost and schedule unpredictability



Just in time inventory

DDD

Sustainment of Enduring Fleet

- Historically, aircraft sustainment relied heavily on production
- Fielded CH-47F require OCSM or overhaul to extend the life of a 20+ year old aircraft
- Modernization updates through obsolescence









CH-47F Legacy Radios ARC-186 ARC-164

Product Improvement Program (PIP) ARC-231A

MOSA & Future Capability

CAAS 10

- ARINC-661
- A-PNT
- Avionics Obs. Integration
- PSM-8600B (FACE)
- ARR (FACE)

CAAS 11

- · SW Rehost
- PEO AVN HW
- Enterprise DVE
- Large Area Display
- ASE SW Rehost
- GPPU Replacement
- Use of MBSE processes and tools to integrate cross-platform capabilities
- **CAAS** architectural alignment with UH-60M, CH-47F, MH-47G

Quality and Affordability are key U.S. Army metrics that OEM and sub-tier suppliers must prioritize





CH-47F Block II



Product Improvement Program (PIP)

- ARC-231A integration
- New data loader
- · Common fill ports
- · Improved fuel sys info
- · Electromagnetic hardening

Common Avionics Architecture

System (CAAS) Update



Flight Controls

- · Redesigned trim actuators
- · Digital Advanced Flight



Improved Troop Seats



Rotor System

Upgraded hub



Improved Drive Train

- Upgraded Sync/Rotor Shafts
- · Uprated forward, combiner transmissions
- · Modified/Upgraded Aft transmission

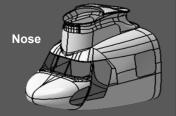
Upgraded Acoustic Blanket











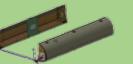
Helicopter Emergency Egress Lighting System



- **Control System update**



- · Externally replaceable



Electrical System

- Regulated Transformer Rectifiers
- Emergency Power
- LED lighting



CH-47 Unique components

MH-47 Common components

INCREASED PAYLOAD, EXTENDED REACH, IMPROVED SUSTAINABILITY





Block II Significant Improvements



ECP	Benefit
Airframe	Increased maximum gross weight
	Increased commonality for H-47 fleet
Rotor	Reduced O&S costs: greater parts life at higher aircraft gross weights
Drive Train	Reduced O&S costs: greater parts life at higher aircraft gross weight
Fuel	Single tank design
	Increased fuel capacity
Electrical	Increased emergency power
	Helicopter Emergency Egress Lighting (HEELS)
	Troop Power Access
Flight Controls	Improved aircraft handling qualities





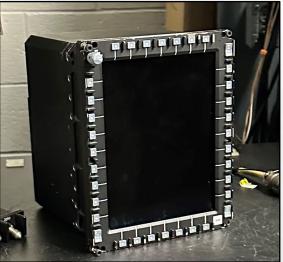
CH-47F Obsolescence Goals



- Deliberate process to identify and mitigate issues
- Proactive program focused on entire aircraft
- Sustain the Block I fleet
- Sustain Block II fleet as it enters service
- Recognition of "orphaned parts" with transition to Block II







CH-47F CDU

CH-47F PSM 8600A, 8600B

CH-47F MFD





International Engineering Services Program



- Opportunity for partners to "Get a Vote" in obsolescence
- IESP partners are priority for parts funding
- Examples of potential projects:
 - New avionics architecture/cockpit to implement MOSA
 - Cruise Guide Indicator
 - Emergency Standby Instrument System







Closing Comments & Questions















http://www.army.mil/peoaviation



http://facebook.com/peoaviation



https://www.dvidshub.net/unit/PEO-A



in https://www.linkedin.com/company/peo-aviation









