



SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

COL John Vannoy
Program Executive Officer

ROTARY WING



ROTARY WING

SCHEDULE OF PRESENTATIONS

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Day 1 – Wednesday 20 May 2015

11:15 - 12:15

PEO RW Strategic Overview

13:30 - 14:30

MH-47G, MH-60M, MELB Program Update

Mission Equipment Program Update

SOF Training Systems Update

Silent Knight Radar Product Update

Day 2 – Thursday 21 May 2015

09:00 - 10:00

PEO RW Strategic Overview

10:45 - 11:45

MH-47G, MH-60M, MELB Program Update

Mission Equipment Program Update

SOF Training Systems Update

Silent Knight Radar Product Update

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AGENDA

- Enterprise and Portfolio Overview
- Operational Commander's Perspective
- New in FY15
- Roadmaps
- Resourcing Strategic View
- Highlights of Program Status
- Way Forward
- Questions



ROTARY WING NETWORK

Resource SOF Rotary Wing Fleet

Equip the soldiers of the 160th SOAR(A) and the TSOCs SOF with unique and unequaled Rotary Wing capabilities

Sustain the unique aircraft operated by the 160th SOAR(A) and the TSOCs

Support the Global SOF Network through responsive resourcing



160th SOAR (A) – TSOCs Operators



ARSOAC SIMO Requirements



PEO RW USSOCOM Resource Sponsor



PM SKR/PM TAPO/PM STS/PM MELB Materiel Developer

PEO ROTARY WING (RW)

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MOBILITY



**A/MH-6
Light Attack/Assault**

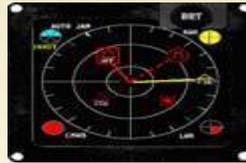


Medium Assault MH-60



Heavy Assault MH-47

MISSION EQUIPMENT



Active Aircraft Survivability Equipment



Passive Aircraft Survivability Equipment



Avionics



Sensors



Silent Knight Radar

TRAINING SYSTEMS



A/MH-6M Little Bird



MH-47G CMS



MH-60L/M CMS



**Battle Staff Training
Exercise Management Control**

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ARMY RW 2030

- Emerging operating environment suggests a complex, multi-polar world with an ever-broadening array of irregular/hybrid threats
.... must be prepared to conduct operations throughout the spectrum of conflict
- Our adversaries will continue to employ asymmetric operations and tactics against U.S. interests
....comparative advantage capability investments needed to counter the proliferation of information, weapon, and cyber technologies
- U.S. Strategic Guidance cautions against forces sized for large-scale, prolonged operations
....drives an expeditionary, scalable force with reduced footprints
- Must recognize the implications of fiscal uncertainty and austerity
....strategic choices among capability, capacity, and readiness

Army Special Operations Aviation Priorities



- *Sustain Our Core Competencies Beyond The Current Fight*
- *Posture To Provide SOA Support Forward*
- *Maintain The Comparative Advantage Over Our Adversaries*
- *Improve Affordability Without Sacrificing Effectiveness*

POSTURE TO PROVIDE SUPPORT FORWARD



- Regional alignment of SOA Battalions to Theater SOCs
- Tailored "Presence for Purpose" employment to support full spectrum SOF campaigns (SOA RW Operations, AvFID, ISR.....)
- Small footprint, low signature capability solutions
- Country-specific engagements to build partner nation aviation SOF capacity

MAINTAIN COMPARATIVE ADVANTAGE



- ### Maneuver / Fires
- Platform improvements in range, speed, payload, and vertical maneuverability
 - Operations in degraded visual environment
 - Lightweight munitions
 - HD imagery and datalinks
 - Weight reduction
- ### Survivability
- Signature reduction
 - Integrated aircraft survivability equipment
 - Multi-function sensors/jammers that are distributed and networked
 - Cyber force protection

IMPROVE AFFORDABILITY MAINTAIN EFFECTIVENESS



- **Sustainability/Affordability**
 - Total cost of ownership
 - Interoperability/Commonality of components
 - Integrated machine health monitoring that delivers a tangible cost benefit
 - Increased component time on wing
 - Reduced fuel consumption

Logistics Modernization

Digital Integrated Maintenance Environment

Configuration Management

Product Support Modernization

Single Pass-Through Rapid Procurement Initiative

Mission Equipment Programs

Mission: Lifecycle management of all aviation mission equipment

Product Office Focus Areas

- Avionics and Software
 - CAAS, CMS
 - Manages over 45 different avionics "Black Boxes"
 - Secure Real Time Video
- Sensors and Weapons
 - Electro-Optical Sensor Systems
 - Multi-Mode Radar
 - Degraded Visual Environment
 - Li-Ion Battery for DC Mini-Gun
- Aircraft Survivability Equipment
 - Ballistic Protection
 - IR, RF Countermeasures
 - Hostile Fire Indicator System

NEW IN FY15

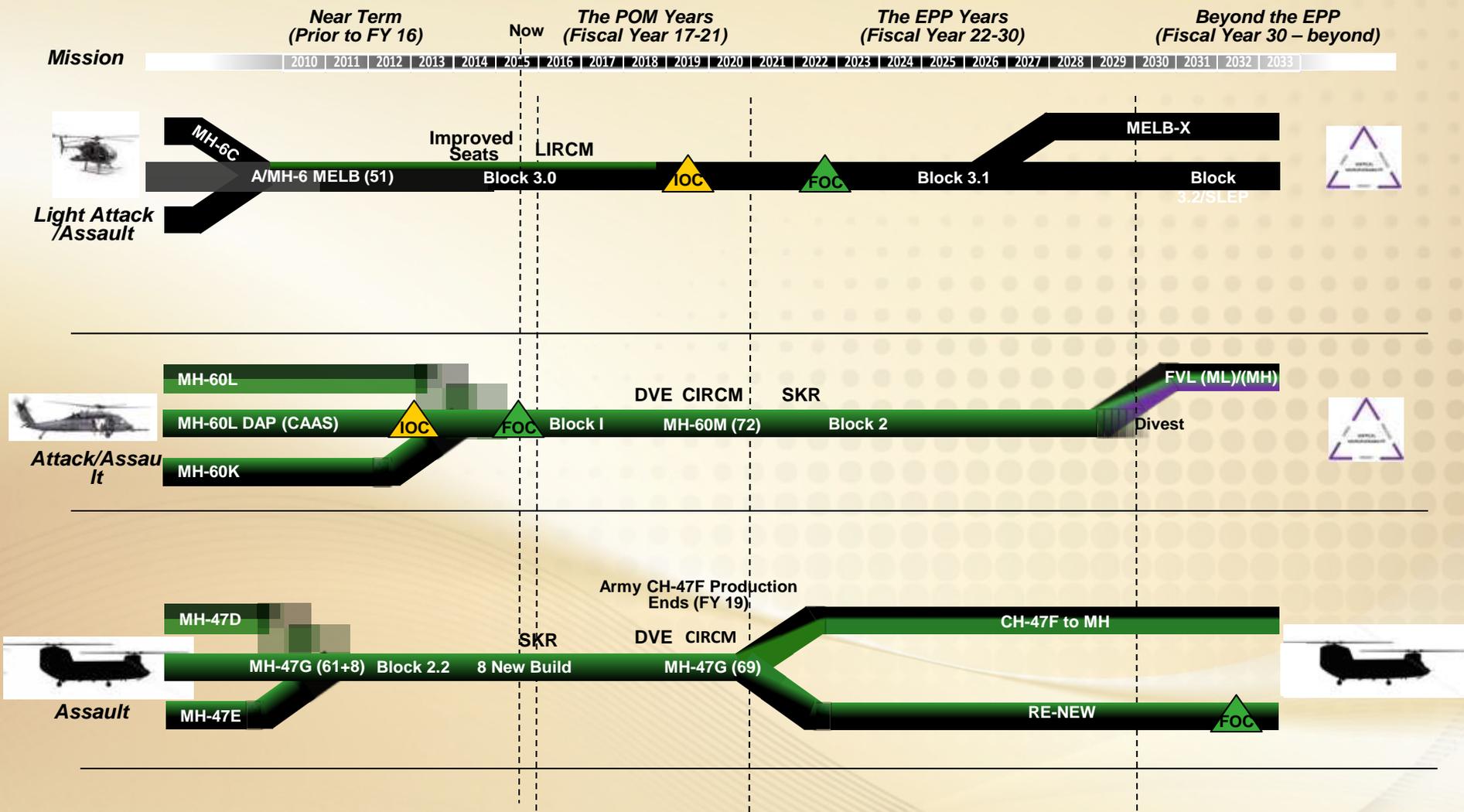
- **New Start Programs:**
 - Lightweight Infrared Countermeasures – FY16 PROC
 - MH-60 Block Upgrades – FY16 PROC
- **Airborne Mission Network Risk Reduction – FY15**
- **RW S&T Roadmap**
- **MH-47G and CH-47F Block II Collaboration**

WAY FORWARD

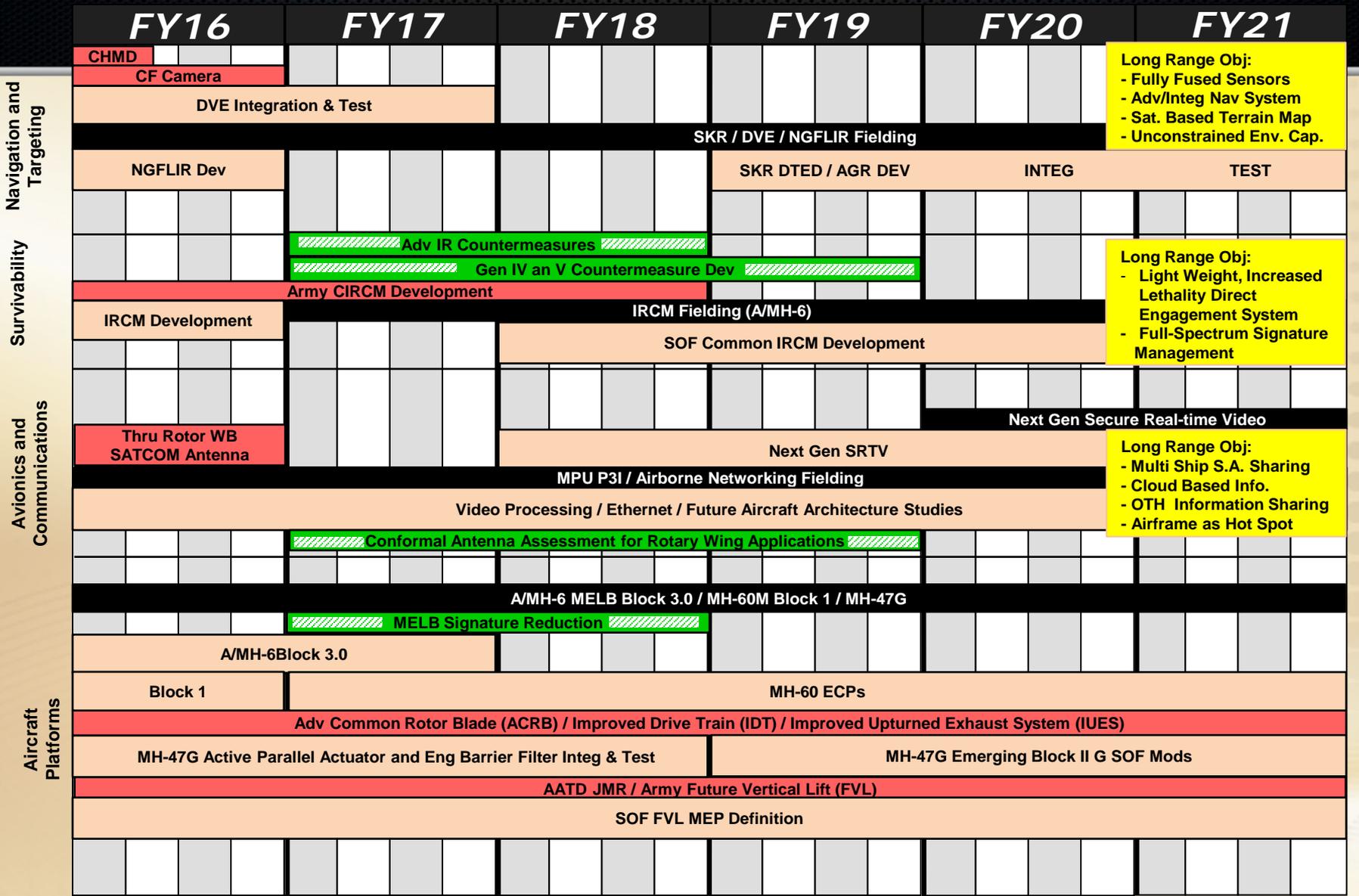
- Emphasize RDT&E planning
- Complete fielding of MH-60M and MH-47G
- Refresh the MELB fleet
- Security Cooperation and Foreign Military Sales
- Expanding off platform sensor employment
- Integrating UAS into simulations
- Aligning the enterprise for “Rolling Advantage” in ASE
- Lightweight Weapons emphasis

RW ROADMAP

-  Milestone (IOC)
-  Milestone (FOC)
-  SOF
-  Joint
-  Army



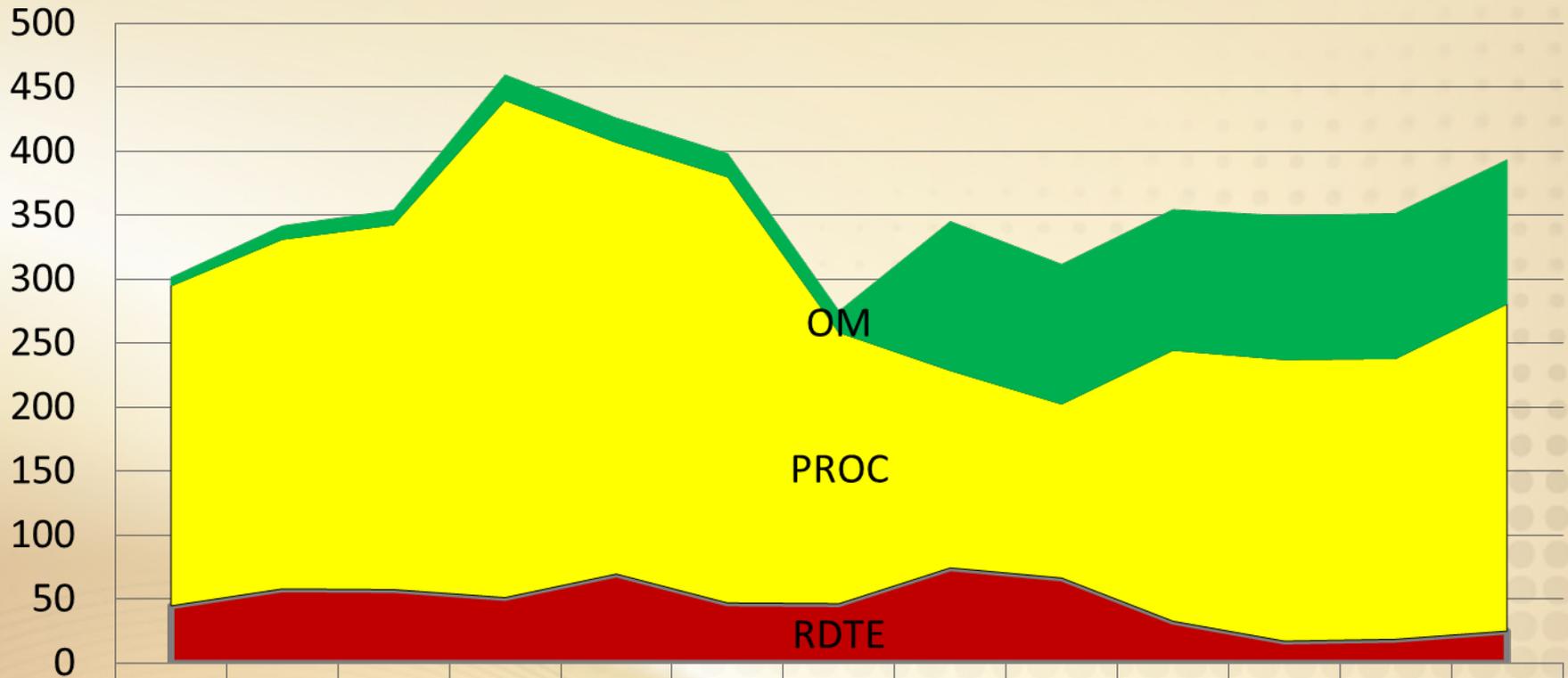
RW S&T ROADMAP



★ Deliverable
▲ Milestone
■ Non-USSOCOM Effort
■ Non-Funded Effort
■ USSOCOM S&T Effort
■ Non-Funded USSOCOM S&T Effort
■ USSOCOM Effort
■ USSOCOM PROC
➔ Supports a Key Event

RESOURCING STRATEGY

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	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
■ OM	6	10	11	20	19	18	16	116	109	110	112	113	112
■ PROC	250	273	285	389	337	333	212	154	136	212	220	219	256
■ RDTE	45	58	58	51	70	47	47	75	67	33	17	19	25

Millions \$

MOBILITY

- **A/MH-6M**
 - Block 2.2
 - Block 3
- **MH-60M**
 - Fielding complete FY15
 - Block 1
- **MH-47G**
 - New Build fielding complete FY15
 - Digital Automated Flight Controls
 - Block 2.3
 - Next Block and Renew



HPRB First Flight – June 26, 2013



MH-47G RENEW PROGRAM

CH-47F

- Machined airframe
- Production (2007)
- Average time: 1,062 Hours
- Max Gross Wt: 50K
- Payload: 19.3K



Current H-47
Configuration

H-47 Block II F Model

Section 41
SOF MH-47G
(Common)

Section 43
CH-47F Multi-Year
Recapitalized

Section 46
SOF MH-47G
(Common)

1,110 GAL
Fuel Capacity

H-47 Block II
Configuration (533) (Includes SOF)

MH-47G

- Riveted airframe
- 2001 SLEP (61)
- Average time: 8,381 Hrs
- Max Gross Wt: 54K
- Payload: 22.2K



H-47 Block II G Model

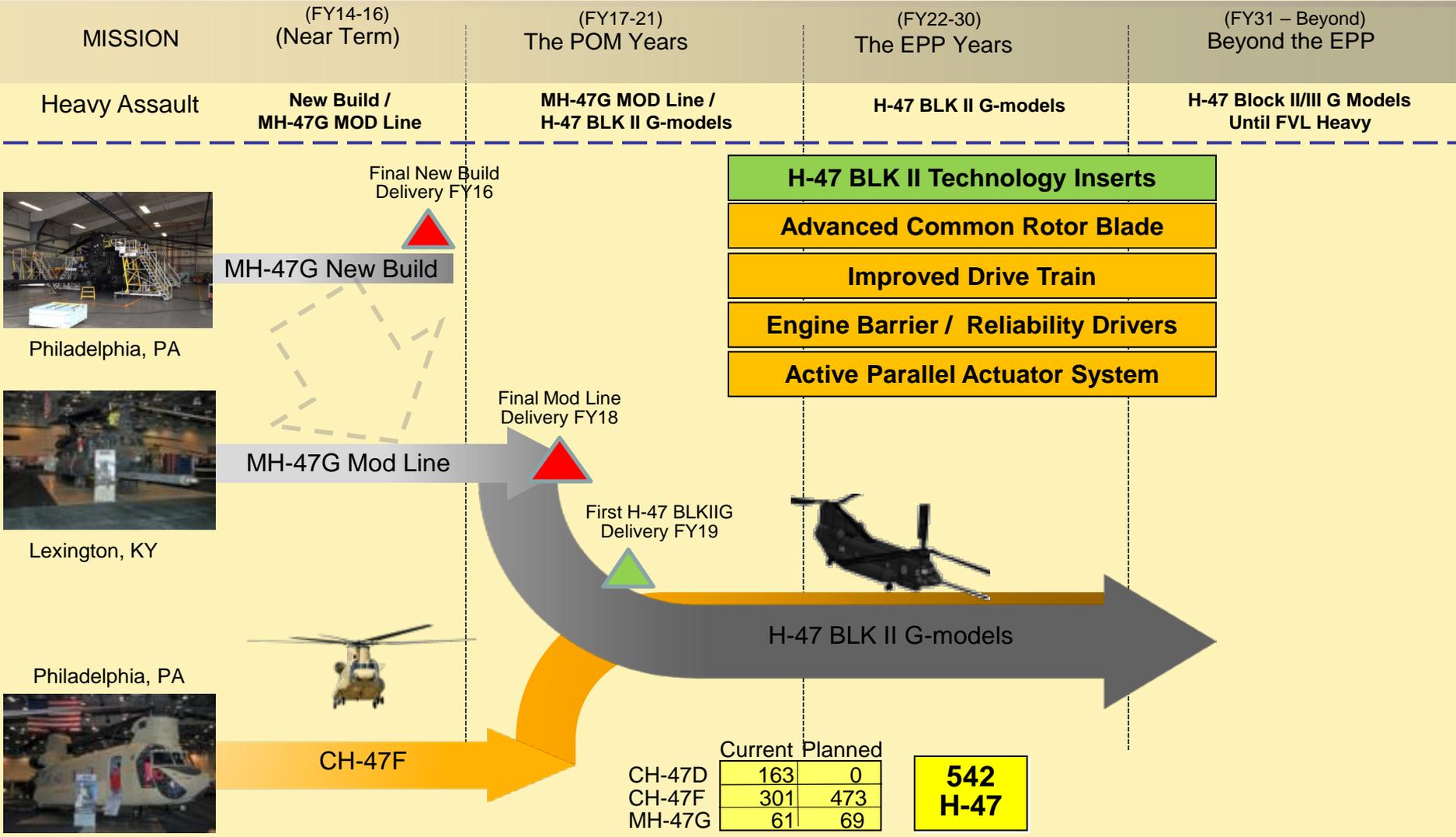
Section 41
SOF MH-47G
(Common)

Section 43
SOF MH-47G

Section 46
SOF MH-47G
(Common)

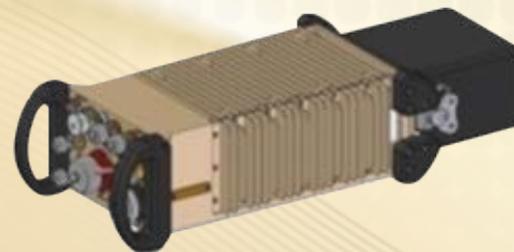
2,000 GAL
Fuel Capacity

CARGO HELICOPTER STRATEGY



MISSION EQUIPMENT

- Degraded Visual Environment
- Airborne Mission Network
- Aircraft Survivability Equipment
- Common Avionics Architecture
- Secure Real Time Video
- Terrain Following Radar



- **Legacy Upgrade Effort**
 - MH-47E to MH-47G
 - MH-60K to MH-60M
- **Concurrency and Re-host**



QUESTIONS

