Department of Aviation, HQMC

Naval Aviation's Future: Leadership & the Challenges

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Outline

- Philosophy and Vision
- Change
- TacAir Integration
- Marine Aviation Way Ahead
Philosophy

Naval Solution

• One Team
• One Vision
Six Functions of Marine Aviation

- Offensive Air Support
- Anti-Air Warfare
- Electronic Warfare
- Assault Support
- Control of Aircraft and Missiles
- Reconnaissance
Marine Aviation’s Role

Operational Flexibility for Expeditionary Maneuver Warfare
Change within ACE Concept of Operations

2015 ACE Capabilities Responding to Tomorrow’s Threat

Battlespace Awareness
- Operational Reach
- Interoperability
- Flexibility
- Lethality
- Survivability

Challenges
- TacAir Integration
- Modern Aircraft Transitions
- Combat Air Forces
- New Aircraft Basing
- MACCS Modernization
- Enhanced Seabasing

Aviation Change
- Legacy Platforms
- Concepts
- Technology
- Aviation Programs
• Strategic Agility
  - Rapid Self Deployment Capability of Aircraft—TacAir, MV-22, KC-130J
  - Capable of both land-based Expeditionary operations and Sea-Based operations

• Operational Reach
  - Modern Aircraft enable substantial increase in Range, Payload & Survivability over Legacy Aircraft
    • JSF, KC-130J, MV-22, H-1(Y/Z), CH-53X
    • KC-130J extends Combat Range/Radius of JSF, MV-22 & CH-53E

• Tactical Flexibility
  - Versatility of Platforms across Full Spectrum of Conflict
• **Support and Sustainment**
  - Aircraft and Munition Neckdown Strategy—J-Weapons
  - Commonality of Platforms
    - MV-22, KC-130J & CH-53X Engines
    - UH-1Y and AH-1Z Engines & Avionics
  - Marine Aviation Logistics Support Program
    - Enables rapid and sustained support to the ACE

• **Joint/ Multinational Enabling**
  - Scalable ACE with Joint/ Combined C2 Plug-in
  - Common Aviation Command and Control System(CAC2S)—Modular and Scalable with joint interoperability
Harness Change in order to Retain our Culture within Expeditionary Maneuver Warfare
What Change?


- TacAir Integration
- Legacy to Modern Transition
- MACCS Modernization
- New Basing Requirements

- AAAV
- LW-155
- New Infantry Weapons

How We Change will Dictate the Marine Corps’ Future for the Next Half Century
TacAir Integration
Tasking

• Answer Defense Planning Guidance Tasking:

  “...conduct a comprehensive review to assess the feasibility of integrating all Naval aviation force structure. Naval Aviation structure must continue to provide flexible, responsive, interoperable and expeditionary forces that support Combatant Commanders and joint forces. The integration of aviation capabilities should seek both effectiveness and efficiencies.”
TacAir Integration

• Retains our Culture—This is not a New Concept
• Smaller, More Capable, More Affordable Force
• Ensures TacAir Support to the MAGTF
  – Allows Global Sourcing of all DoN TacAir Assets
  – USMC CAS Expertise on Every Carrier
• Increased Combat Capability Forward
• In Concert with Sea Basing Concept
• Reinforces Expeditionary Ethos
Aircraft Transition

- KC-130J
- F-18 E/F
- F-18 C/D
- MV-22
- JSF
- H-1Y/Z
- CH-53X
- EW
F/A-18E/F
F/A-18D
UH-1Y
AH-1Z
CH-53X
EA-6B
The Challenge is Maintaining Readiness & Warfighting Relevance

Throughout the Transition from Legacy to Modern Platforms in support of Expeditionary Maneuver Warfare
USMC Platform Roadmap

F-4
RF-4
F/A-18 A/B/C/D
A-6E
OA-4
A-4M
AV-8B

EA-6B
KC-130 F/R/T

CH-46 D/E
CH-53A/D
CH-53E

OV-10D
AH-1 J/W
UH-1N

T/M/S reduction: 23 ➔ 7

F-35 JSF
EA-6B/EF-35
KC-130J
MV-22
CH-53X
AH-1Z
UH-1Y
Convergence of Marine Aviation’s MACCS capabilities to support Expeditionary Maneuver Warfare
Joint/Multinational Enabling: Aviation Command & Control

MACCS
- Interoperability
- Modern Info Technology
- Expeditionary Packaging
- MAGTF “Info Warrior”
  - Operator
  - Maintainers

CAC2S
- Scaleable
- Modular
- Joint
- Common Hardware
- Defense Information Infrastructure (DII)
- Common Operating Environment (COE) Complaint Software
MWSS makes the ACE Expeditionary
Basing Challenges

Pendleton—Miramar—Yuma—Cherry Point—New River—Beaufort

Lemoore—Oceana
Future Bases & Stations

• Strategic Reachback
  – Worldwide Access to Info & Analysis

• Enhance Networked Sea base
  – Counter to Anti-access and Area Denial Strategies
  – Minimizes Footprint Ashore
  – Enhanced Force Protection

• Strategic Sustainment for Deployed Forces

• Networked Foundation for Joint Training

Minimizing Overhead, Resourcing Warfighters
Legacy to Modern Transition Chaos

IOC to FOC

- KC-130J
- MV-22
- AH-1Z
- UH-1Y
- JSF
- CH-53X

Basing
MACCS

Be Ready, Make Decisions
The Way Ahead

- Execute TacAir Integration within Concept of Expeditionary Warfare & Maneuver from the Sea
- Transition from Legacy to Modern Aircraft (STOVL Force)
- Integration of All Naval Aircraft with Naval C4I
2003-2008

• Aviation & Ground Safety is Primary Focus
  – Preserve our Most Important Assets—Marines, Sailors & Equipment
• Transition Plan
• Budget
• Readiness

We Must Maintain Combat Readiness
Philosophy

Naval Solution

• One Team
• One Vision

Our Mission Remains the #1 Priority