A Seabased Maritime Prepositioning Force

MPF(F)

7th Annual Expeditionary Warfare Conference
Oct 02

A SEAPower 21 Program

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Agenda

• Program Schedule Review

• AoA Approach

• Key Technologies
MPF(F) AoA Focus

- MPF(F) Marine Expeditionary Brigade Support
  - What must the ship hold
  - How will it receive & deliver forces & supplies
  - Ship designs to allow sea basing initiatives

- MPF(F) Naval Logistics Support
  - What must the ship hold
  - How will it receive & deliver forces & supplies
  - Ship designs to allow CONSOL and Replenishment-at-Sea
Analysis of Multiple Concepts
Ship Alternatives

• Alternatives
  • Replace current MPS and Aviation Logistics Support Ships (TAVB) in kind (no seabasing capability)
  • Modify existing MPF ships to better achieve MPF(F) missions using only internal and external equipment or configuration changes
  • Replace existing MPF ships with newly designed ships with rotary-wing/STOVL capable sea base.

• Notes:
  ➢ All: Examine range of logistics throughput capability for each ship option
  ➢ #3: Rotary-wing aircraft & STOVL basing
  ➢ Alternatives beyond current baseline: Examine additional roles for MPF(F) ships, including JCC(X), T-AH, T-AVB, ESS, MCS(X), AFSB
Analysis of Multiple Concepts
Aviation Basing

• For all alternatives that include sea basing of rotary-wing aircraft, examine cost, capability and risk trade-off for basing aircraft on:
  - MPF ships
  - ATF ships
  - Supporting CVN
  - Some combination of these three ship types
  - Ashore
Technology Issues

• MPF(F) Required Technologies:
  ➢ Open-ocean air and surface craft interface
    • OTH surface lighters
    • Launching and loading – integrated landing platform
  ➢ Selective retrieval of cargo
  ➢ CLF Interoperability
  ➢ Skin-to-skin replenishment
  ➢ Supporting C4I interoperability

• Planning for technology refresh
  ➢ Open systems
  ➢ Modularity
Questions?