19th NDIA Expeditionary Operations Conference

19 November 2014

Expeditionary Warfare Division (N95)

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Recent Activity in MIW

Improvement to MCM Force Remains a Priority

• Fleet MCM Systems
  – Continuing installations of SQQ-32(v) 4 Surface Mine Hunting Sonar on Avenger Class MCMs
  – AQS-24B High Speed Synthetic Aperture Sonar in production
  – Quickstrike mine wing kit demonstrations

• 5th Fleet MCM Deployed Systems
  – SeaFox: Avenger class, MH-53E, and Portable by EOD
  – Permanent crews assigned to MCMs in Bahrain
  – Mine Hunting USV (MUH)
  – MK-18 Mod 2 UUVs

• LCS Mine Warfare Mission Systems
  – Airborne Laser Mine Detection System (ALMDS)
  – MCM MP testing events for ALMDS, RMS and AMNS completed in October 2014
  – Unmanned Influence Sweep System (UISS) achieved Milestone B
  – Knifefish Engineering Development Model delivered for in-water testing
  – COBRA Block I

• Assault Breaching Systems – Countermine System (CMS) defunded and JABS being considered as viable replacement

GOAL: Mine Countermeasures Mission Package Increment 1
Fleet Introduction
MCM VISION:

1. Reduce MCM timelines for Combatant Commanders
2. Reduce risk from sea mines to allow Joint Force mission execution
3. Integrate new and evolving technologies into the Littoral Combat Ship
Takeaways

• Constrained Fiscal Environment

• Current Readiness
  – Maintain/Improve Ao of legacy systems
  – Support Bridging Technologies

• Transition to Future Readiness

• Integrated Systems
  – Increased Kill Chain Speed
  – Long-duration unmanned systems

U.S. Mine Warfare
  • Hunting
  • Neutralization
  • Assault Breaching
  • Offensive Mining
  • Influence Sweep

FUTURE MINE WARFARE
  • Fewer Systems
  • Greater Capability
Opportunities for Industry

- **Period of Transition and Innovation**
  - Compress time to complete Kill Chain for all MCM systems
    - Any investment measured in terms of reduction in Kill Chain timeline
    - Includes planning systems
    - Real-time analysis
    - Multi-Mission systems (Mine Hunting and Neutralization)

- **Mine Warfare C4I (US/Coalition) and Command & Control Facilitation**
  - Common standards and interfaces—common training
  - Modular and Interoperable
  - Mission planning and analysis outputs compatible across systems

- **Affordability throughout the Life Cycle**
  - Supportable & Sustainable Systems
  - Reduced Maintenance (Can not pass inefficiencies on to Sailors)
  - Lighter/smaller systems
  - Design and Implementation of Open Architecture and Multiplatform Systems (flexibility – Interoperability)

- **Revitalize Offensive Mining Capability**
Questions?

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