LCS Mission Modules

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Mine Countermeasures (MCM) Mission Package (MP) Overview

- Production is under way – two (2) packages delivered to date
- Developmental testing has commenced (three of four phases complete)
  - Phase 1 on USS Independence (LCS 2) completed October 2011
    - Successfully executed first simultaneous offboard systems mission
    - Detected and classified mines with both MH-60S helicopter and RMS based sonar
  - Phase 2 on LCS 2 completed March 2012
    - Successfully demonstrated all steps in the detect-to-engage sequence as well as simultaneous MH-60S helicopter and RMS off board operations.
  - Phase 3 on LCS 2 completed August 2012
    - Additional launch, handling, and recovery testing completed to evaluate improved processes/equipment
  - Will conduct remaining phases of DT and operational testing on LCS 2 in FY13/14
  - Remote Minehunting System Reliability Growth Program is executing at-sea testing
    - Currently greater than 270 hours without any Operation Mission Failures (OMF)
**Surface Warfare (SUW) Mission Package (MP) Overview**

- Four (4) SUW MPs have been delivered
  - Two 30mm guns, armed helicopter, and maritime security module
- **Gun Mission Module (GMM) and Maritime Security Module (MSM) testing is underway**
  - Developmental Test (DT) on USS Freedom (LCS 1) completed in July 2012
    - Tracking and live fire scenarios were successfully executed
    - Will conduct remaining phases of testing and conduct operational evaluation on USS Fort Worth (LCS 3) in FY13/14
- **Surface-to-Surface Missile Module (long range engagement capability) is under development**
  - Griffin Missile System selected for Increment 1
  - Competitive solicitation for Increment 2

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**USS Freedom (LCS 1) deployed 1 March 2013 with the SUW MP**

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Anti-Submarine Warfare (ASW) Mission Package (MP) Overview

• ASW Escort Module:
  – PEO IWS completed a successful at-sea demo of a prototype Variable Depth Sonar and Multi-Function Towed Array (MFTA) in FY12

• Torpedo Defense Module:
  – Significant testing (25 events) of the Light Weight Tow system conducted on torpedo test range (2007 thru 2012)

• Technical Data Package for both seaframe variants will be completed later this year

• Preliminary Design Review (PDR) is scheduled for Q4 FY13

• Initial delivery of the ASW Mission Package is planned for FY16
Summary

- MCM MP on track for Operational Test & Evaluation in FY14, despite budget uncertainties
- SUW MP deployed aboard USS Freedom (LCS 1) in FY13 and on track for Operational Test & Evaluation in FY14
- ASW MP demonstrated excellent performance during at-sea testing in FY12
- Selection of mature mission systems and the Open Architecture-compliant computing environment/mission equipment ease integration effort
- Phased delivery of mission systems allows the Navy to field additional capabilities as they mature
- Mission package production will continue to pace seaframe deliveries
Questions?