Unmanned Maritime Systems - Status

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CAPT Duane Ashton,
Unmanned Maritime Systems,
PMS 406 Major Acquisition Program Manager
(202) 781-1393
duane.ashton@navy.mil

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Distribution Statement A: Approved for Public Release; Distribution is unlimited.
Summary

PMS 406

Acquiring the Navy’s Future Unmanned Fleet

- Large Displacement Unmanned Undersea Vehicle (LDUUV)
- Persistent Littoral Undersea Surveillance System (PLUS)
- Unmanned Influence Sweep System (UISS)
- Knifefish
Large Displacement UUV (LDUUV)

- Development and forward deployment of stealthy, multi-mission large displacement unmanned undersea vehicles with endurance, autonomy, stealth, and responsiveness
  - LDUUV is able to be launched from a variety of platforms to include surface vessels and shore facilities
  - LDUUV missions include Intelligence Preparation of the Environment (IPOE), Anti-Submarine Warfare (ASW), Intelligence, Surveillance and Reconnaissance (ISR), and offensive operations

- Acquisition Program Status:
  - Completed Gate 1 Review and material Development Decision
  - AoA Study in progress
  - Plan on track to complete Gate 2 and Gate 3 Reviews in FY13
  - Developing documentation to support Milestone A Decision (MS A) Review

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<th>MDD Gate 1</th>
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<th>Gate 4/5 RFP Release</th>
<th>MS B &amp; EMD Contract</th>
<th>PDR Review</th>
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<th>Build &amp; Test</th>
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Mission
- Provides effective, adaptive and persistent surveillance of multiple quiet targets over large littoral areas

PMS 406 fielding the following configuration
- Six REMUS Unmanned Undersea Vehicles (UUVs) with acoustic sensors and acoustic communications report sonar detections
- Five Sea Glider that transit vertically to the surface to communicate via satellite to the C2 center
- A C2 center

ONR INP transition to UOES addressing fleet urgent operational need

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Unmanned Influence Sweep System Status (UISS)

- Provide LCS with stand-off, long endurance, semi-autonomous minesweeping capability to counter acoustic and/or magnetic influence mine threats
- Draft RFP released Dec 2012; Industry Day conducted 24 January 2013
- Proceeding to MS B and Contract Award - FY14

<table>
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<tr>
<th>Acquisition Documentation &amp; Award Prep</th>
<th>Award EDM Contract</th>
<th>Award LRIP Contract</th>
<th>1st UISS Delivered to LCS</th>
<th>Full Rate Production</th>
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Prototype Pictured

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Knifefish (SMC M UUV)

- Low Frequency Broadband Synthetic Aperture Sonar
  - Detect and identify buried mines in a high clutter environment
- Vehicles operate autonomously per a pre-programmed mission plan
- 1 system per package for 24 MCM packages, plus 6 training systems (30 systems total)
- E&MD Contract awarded 30 Sept 2011 to GDAIS McLeansville, NC
- CDR completed - Jan 2013