Unmanned Maritime Systems

September 18, 2015

Jim Hughes
Vice President,
Submarines and Fleet Support
Newport News Shipbuilding
Commercial Market

- Oil and gas industry
  - Primarily ROV moving toward autonomous
- Experimental vehicles

Source: A graphic representation of MWCC’s Containment System, Marine Well Containment Company
DoD / Military unmanned maritime vehicles include air, surface and undersea
Naval Undersea Systems Market

Unmanned Undersea Vehicles (UUVs)
- Test Vehicles, Drones and Decoys
- Large Displacement UUV
- Mine Hunting and Research UUV’s and Gliders

Submarine Mission Systems
- Dry Deck Shelter Modernization
- Submarine Payload Modules, Launch and Recovery Systems, ISR Hardware, etc.

Special Technologies and Programs
- Classified Programs
- Research, Development, Test and Evaluation (RDT&E)

Operations and Full Life Cycle Support
- Operations
- Submarine Rescue System

Undersea Infrastructure
- UUV Charging Stations
- Sensors, Networks and Communications
- Upward Falling Payloads

Estimated 2020 funding of $1.1 B and industry addressable market of $0.7 B
Undersea Solutions Group

- Former Engineering Solutions Division of The Columbia Group
  - Now subsidiary of HII reporting to Newport News Shipbuilding (NNS) as Undersea Solutions Group
  - Acquired on January 30, 2015

- Capabilities:
  - Leading designer and builder of manned and unmanned underwater vehicles
    - U.S. Navy
    - Foreign military sales
  - Builds and converts specialized craft and applications
    - Support of submersibles and submarines
    - Navy special warfare
    - Mine warfare / countermeasure systems
    - Advanced undersea weapons
  - Headquartered in Panama City Beach, Florida
  - Employs 30 associates:
    - Engineers
    - Analysts
    - Craftsmen
    - Technicians

- Strategic acquisition by HII-NNS to improve positioning for UUV market

Summary

- Unmanned maritime market includes air, surface and undersea components

- While commercial remotely operated undersea vehicles used to dominate the space, the DoD / military segment is becoming the larger market opportunity

- Based on its geographic location, strong DoD / military relationships, and large technology and manufacturing companies / capabilities, Virginia will be a significant player in this emerging market

- As with any new industry / technology, planning for the thoughtful development and management of this arena will be critical to its success