



# DEEPWATER



## DoD Maintenance Symposium & Exhibition - 2004

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# Today's Topics

- Deepwater – Partnering for Success
- Program Status and Near-Term Plans
- Life Cycle Focus Targets – Maintenance, Logistics, Training



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# Deepwater – Partnering for Success

*Deepwater is a performance based acquisition to replace the ships, aircraft, C4I and logistics systems that perform the United States Coast Guard's core missions.*



## *Core Missions*

- **Homeland Security/National Defense**
- **Search and Rescue**
- **Alien & Drug Interdiction**
- **Fisheries Protection**
- **Marine Environmental Protection**



## *Current System*

- **93 Ships**
- **206 Aircraft**
- **Associated C4ISR**
- **Shore Command & Control**
- **Support Infrastructure**



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# Program Overview

## Performance Based:

- Focus on capabilities not assets; Not a one-for-one replacement.

## Acquisition Strategy:

- *Partnership* between USCG and a system integrator.
- Acquire *integrated system of* surface, air, C4ISR, and logistics *systems*.



## Overarching Objective:

- *Maximize Operational Effectiveness while Minimizing Total Ownership Costs.*



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# A Public/Private Partnership

- U.S. Coast Guard, Lockheed Martin, and Northrop Grumman.
- Combined knowledge working side-by-side operating in concert with the Coast Guard at every level.
- Innovative management drives organizational excellence for achieving DHS goals.
- Proud of our government and industry partnership and the tangible results we are already demonstrating.



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# The Industry Team

## *Integrated Coast Guard Systems, LLC*

### *Lockheed Martin*

- ***Responsibilities:***
  - System Architecture
  - Aviation
  - C4ISR
  - Integrated Logistics Systems
- ***Major Subcontractors:***
  - L3 Communications
  - Bell Helicopter Textron
  - EADS CASA
  - LM IS&S
  - American Eurocopter Corp
  - Agusta

### *Northrop Grumman*

- ***Responsibilities:***
  - Ships
  - Ship Support
- ***Major Subcontractors:***
  - Halter Bollinger JV Shipbuilding
  - M. Rosenblatt & Sons
  - United Defense, LP
  - Detroit Diesel/MTU
  - Sperry Marine



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# Program Status and Near-Term Plans

- ICGS registered in Delaware June 4, 2001.
- Joint Systems Integration Program Office established July 2002.
- USCG – ICGS Partnering agreement signed with USCG Dec. 2002.
- Joint Program Management Team charter signed Jan. 16, 2003.
- IPT Structure placed on 23 teams operating under five domains reporting to joint PMT.
- Integrated Product Data Environment (IPDE) established across the Enterprise.
- Integrated Cost and Schedule (EVMS/IMS) established and managed across the entire Enterprise.
- CM / DM established and Control Boards executing change management.
- 400+ suppliers on-board in 36 out of 50 states.

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# System Assets

Maritime Patrol Aircraft (MPA)



VTOL Unmanned Air Vehicle (UAV)



High Altitude Endurance UAV



VTOL Recovery and Surveillance Aircraft



Multi-Mission Cutter Helicopter



Maritime Security Cutter, Large



HC-130



Maritime Security Cutter, Medium



123' Patrol Boat



Long Range Interceptor



Short Range Prosecutor



Maritime Patrol Coastal



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# The Status of IDS Assets

<b>Concept &amp; Technology Development Phase</b>	<b>Capability Development and Demonstration Phase</b>	<b>Production and Deployment Phase</b>
<ul style="list-style-type: none"><li>• Vertical Recovery &amp; Surveillance Aircraft</li><li>• Offshore Patrol Cutter</li><li>• Fast Response Cutter</li><li>• Long Range Interceptor</li></ul>	<ul style="list-style-type: none"><li>• Multi-Mission Helicopter</li><li>• VUAV Eagle Eye</li><li>• HAEUAV Global Hawk</li><li>• Logistics</li></ul>	<ul style="list-style-type: none"><li>• C4ISR</li><li>• Maritime Patrol Aircraft</li><li>• 123 Patrol Boat</li><li>• National Security Cutter</li><li>• Short Range Prosecutor</li></ul>



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# Surface



**Maritime Security  
Cutter, Large (WMSL)**

- 450' Cutter for National Security missions.
- Contract for lead ship construction awarded June 2004.
- Start of Fabrication September 9, 2004, Keel laying Spring 2005; first WMSL scheduled to be delivered early 2007.



**Maritime Patrol Boat  
(WPB)**

- 123' cutter for Search and Rescue, close-in missions.
- 4 boats delivered. 4 additional hulls being worked on concurrently. 8 more in negotiation.



**Maritime Security Cutter,  
Medium (WMSM)**

- 350' – 380' cutter for Offshore missions.
- Contract to commence WMSM design awarded June 2004.
- Vessel under study for capabilities enhancement to meet new mission requirements.



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# Surface



**Patrol Boat, Coastal  
(WPC)**

- 147' – 160' cutter for fast response, close-in missions.
- Contract to commence WPC design awarded July 2004.
- Technology Demonstrator slated for deployment in 2007.
- Composite hull design will extend operational life to 40+ years, significantly lowering TOC.



**Short Range  
Prosecutor (SRP)**

- Off-Cutter deployable, for crew transfer and interdiction.
- Hulls 1 – 4 delivered. Hulls 5 – 8 under contract.
- Hulls 9 – 15 to be awarded in October 2004.



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# Aviation



**HH-65**

- Re-engining to restore safe & reliable operations.
- First aircraft test flights August 2004.
- 1st article delivered mid-September 2004. 95 units total.



**HH-60J**

- 8 MH-60 Stingray leased for assignment to Helicopter Interdiction Tactical Squadron Ten (HITRON).



**Maritime Patrol Aircraft  
(MPA)**

- Delivery of first 3 CASA in 2006/2007.
- Ongoing effort to determine optimal mix of HC-130 and the CASA to meet the overall system requirements.



**Eagle Eye (VUAV)**

- Completed successful PDR. Currently in detailed design.
- System and vehicle testing through mid-2007, Initial Operational Capability (IOC) Spring 2008.



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# C4ISR

- **Legacy Cutter Upgrades**
  - **SIPRNET & Classified LAN:**
    - **WMEC 270** – 12 of 13 complete
    - **WHEC 378** – 7 of 9 complete
    - **WMEC 210** – Begin in September
- **Legacy Shore Upgrades**
  - **SIPRNET & Classified LAN**
    - **CAMSLANT, Complete**
    - **CAMSPAC, Complete**
- **C4ISR System Developments**
- **C4ISR Deliveries:**
  - 123 WPB Upgrade
  - Short Range Prosecutors
- **C4ISR Performance Spec Summits:**
  - National Security Cutter (WMSL)
  - Long Range Interceptor
  - C4ISR support to MPA, VUAV
- **C4ISR Design and Development:**
  - System PDR successfully held on July 2004.
  - System CDR set for December 2004.

Maritime Domain Awareness Center  
ribbon cutting April 2004



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# Life Cycle Focus Targets

- Maintenance
  - Minimize total systems ownership costs through upgrade and use of existing maintenance centers.
  - Utilize in-place and certified facilities and processes where applicable.
  - Define and develop new centers and capabilities as required to meet OPTEMPO of new assets/missions.



Aircraft Repair & Supply Center (AR&SC)  
Elizabeth City, NC



HH-65 Dauphin Helo under refurbishment



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# Integrated Logistics & Training

Asset Introduction Training

Condition-Based Maintenance

Personal Digital Assistant (PDA) Maintenance Support



Modernization and Technology Insertion

Computer-Based Training

## Capability Improvements

- First generation of Logistics Information Management Software is complete.
- Integrated Product Data Environment (IPDE) has been established program-wide for Program performance and metrics
- ICGS logistics site reps have been named and assigned to ELC (Maryland), MLCA (Virginia), Group Miami (Florida), Group Key West (Florida), and OSC (West Virginia)



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ELC Engineering Logistic Center  
MLCA Maintenance & Logistic Command Atlantic  
OSC Operations Support Center

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# Defining the Future Today

Through People



Through Partnership



Through Performance



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