



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



Multi-Mission Cutter Helicopter



VTOL Recovery and Surveillance Aircraft



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

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



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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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Defining the Future Today

Through People



Through Partnership



Through Performance



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