



**INTEGRATED COAST GUARD SYSTEMS**

# DEEPWATER



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## National Security Cutter Keel Is Laid COAST GUARD DEEPWATER SHIP CLOSER TO REALITY

On March 29, before more than 300 invited guests, distinguished visitors and members of the media, the keel for the lead ship of National Security Cutter was laid, marking a very important milestone in the manufacture of the most technologically advanced and newest multi-mission cutter in the Coast Guard fleet. Northrop Grumman Corporation is building the ship at their Pascagoula facility, under contract from Integrated Coast Guard Systems.

"Today's ceremony marks a significant milestone in the history of the Deepwater program and the transformation of the Coast Guard for its 21st-century missions," said Admiral Thomas H. Collins, Commandant of the U.S. Coast Guard.

"As you build this cutter you are demonstrating that your goals and those of the Department of Homeland Security are the same: operational efficiency, first in class excellence, and extraordinary service," said Department of Homeland Security Secretary, the Honorable Michael Chertoff. "You have chosen a sponsor for this ship that embodies all of those qualities."

Mrs. Meryl Chertoff, the wife of the Secretary of Homeland Security, and the sponsor of the U.S. Coast Guard's first in class cutter, authenticated the laying of the keel, declaring it "fairly and truly laid." Veteran welder L.W. "Billy" Ross welded Mrs. Chertoff's initials along with those of the Commandant into the keel plate of assemblies 2200 and 2300, which together joint the keel.

"As I stand here today, seeing how the Deepwater fleet is getting built by such a talented team, I look forward to the day when American families can rest a little easier knowing that the men and women of the Coast Guard are running missions up and down the coasts of the Nation in this fine ship," said Mrs. Chertoff.

This event celebrated the historic start of a new fleet of Coast Guard cutters and the Nation's continuing investment in the Nation's homeland security.

"Today's keel laying ceremony is the culmination of countless hours of research, planning and commitment to making the National Security Cutter the pre-eminent national security asset in America's homeland security investment," said Dr. Philip A. Dur, president of Northrop Grumman Ship Systems. "We've planned for this ship to be the model for all first of class ships and it already is. The lead National Security Cutter is the best first-time quality ship for a first-in-class that has ever been built here."

The ship represents the first major multi-mission cutter to be introduced to the Coast Guard in the past 25 years. The production contract for this first in class was awarded in June 2004 and the start of fabrication occurred in September last year.



**WMSL Sponsor Mrs. Meryl Chertoff, surrounded by ADM Collins, Secretary Chertoff, Governor Barbour, Dr. Dur, and Mr. Ross, welder, signs her initials on the keel plate.**

"This largest of the Deepwater cutters will prove to be the most technically advanced class of cutters in existence today," said Jamie Anton, Executive Vice President for Integrated Coast Guard Systems, and the emcee for the event.

"Integrated Coast Guard Systems is delivering to the men and women of the Coast Guard the tools they need to get their job done," said Fred Moosally, president of Lockheed Martin Maritime Systems & Sensors. "Our entire team is committed to the Coast Guard's success. This includes our colleagues in the shipyards ... at test facilities ... and at Coast Guard facilities around the nation."

The ship is being manufactured in Pascagoula, Mississippi. The anticipated date of delivery for the lead ship will be the second quarter of 2007. The production contract for the second ship of the class (WMSL 751) was signed in January 2005, and will begin construction in the fall of 2005.

The WMSL will be a 418-foot vessel with a 4,300-ton displacement at full load when delivered. The cutter will be powered by a twin screw combined diesel and gas turbine power propulsion plant designed to travel at maximum speed of 29 knots. It will also include an aft launch and recovery area for two rigid hull inflatable boats, a flight deck to accommodate a range of rotary wing manned and unmanned aircraft and state-of-the-art command and control electronics.

# Deepwater Delivers Re-engined HH-65 Helicopter To Air Station Atlantic City

On April 11, 2005, the U.S. Coast Guard transferred the first of five re-engined HH-65 Dolphin helicopters to Coast Guard Air Station Atlantic City, N.J. The remaining four helicopters are scheduled to be delivered by late May to ensure the unit has a full complement of aircraft.

U.S. Representative Frank LoBiondo, R-2nd New Jersey, visited the air station on Friday, April 15 to welcome the first totally re-engined Dolphin helicopter to his home state.

"It's a great day for the Coast Guard and it's a great day for New Jersey," LoBiondo said. "I think that it's very fitting that the first of these refitted helicopters will be stationed here. This will greatly increase our ability to conduct search and rescue operations, but also since 9-11, we've known that we have to improve our air assets and give the Coast Guard what it needs to handle its mission."

The helicopter was upgraded with Turbomeca Arriel 2C2 turboshaft engines that provide flight safety improvements, substantial power, and flight control.

Twin-engine HH-65 helicopters are particularly well-suited for search and rescue, fisheries patrols, maritime security, border patrol, monitoring illegal immigration, and drug interdiction. The modernization effort to re-engine all HH-65 helicopters in the fleet with the upgraded engine includes the provision of kits by American Eurocopter (AEC), a division of EADS North America. The conversion kits facilitate installation of extended heat shields, a reconfigured cockpit, and specialized avionics software needed for shipboard operations.

"We are committed to ensuring the safety of our pilots and their air crew as they perform their vital missions to protect and serve the American people," said Rear Adm. Patrick M. Stillman, Program Executive Officer of the Deepwater Program.

The re-engining of all operational HH-65s will remedy significant safety and reliability concerns that impact the aging helicopters. The modernization process is being conducted by the Integrated Coast Guard Systems (ICGS) team.

Currently, the HH-65 re-engining program is being performed by ICGS and the Coast Guard at Aircraft Repair and Supply Center (ARSC) in Elizabeth City, N.C.



***Congressman LoBiondo welcomes the first re-engined HH-65 helicopter to Coast Guard's Atlantic City Air Station.***



***An HH-65 helicopter from ARSC flies behind the newly re-engined helicopter recently delivered to Atlantic City.***

# DEEPWATER ACCOMPLISHMENTS



*Newly assembled keel for the first Deepwater National Security Cutter (WMSL-750) was displayed at the Keel Laying event on March 29, 2005.*

## SURFACE DOMAIN

- The keel was laid for the first **National Security Cutter (WMSL-750)** on March 29, 2005. Manufacture began in Pascagoula, Miss., in September 2004, and delivery is scheduled for Spring 2007. The contract was awarded for the **2nd NSC (WMSL-751)** in early January 2005; manufacture to begin Fall 2005.
- **Offshore Patrol Cutter (OPC)** business estimate provided and briefed to the Coast Guard, and final requirements decisions are expected Spring 2005.
- Structure enhancements to six **123' Patrol Boats** (Matagorda, Metompkin, Padre, Attu, Nunivak and Vashon) completed; Two more vessels are in work (Monhegan, Manitou), expected delivery Summer 2005. Matagorda & Metompkin have conducted first operational patrols.
- **Fast Response Cutter (FRC)** contract to begin design was signed in July 2004. **FRC** Performance Specifications and Critical Design Review (CDR) were completed in March 2005.
- **Long Range Interceptor (LRI)** scoping proposal is complete.
- **Short Range Prosecutors (SRP)** delivered with each 123' patrol boat. Single Mast Design Proposal has been delivered.

## AVIATION DOMAIN

- Bell Helicopter Textron's "Eagle Eye" **Vertical Unmanned Aerial Vehicle (VUAV)** passed Integrated Baseline Review (IBR) in November 2004. CDR was completed in January 2005, and Total Logistics Conference held in February 2005.
- The first re-engined **HH-65** was delivered to the Coast Guard in October 2004. The re-engining effort is progressing with helos #2 and #3 to be delivered April 2005 and 11 others in the conversion pipeline. The A second production line "proof of concept" is underway at American Eurocopter in Columbus, Mississippi.

- The first **Maritime Patrol Aircraft (MPA)** airframe is currently in assembly. PDR was presented in December 2004, and a successful IBR was completed in March 2005. CDR with the Coast Guard is planned for June 2005.
- The **HC-130J** aircraft mission package Program Management and Implementation Plan was submitted to the Coast Guard in December 2004 and the Design to Cost Analysis was submitted in January 2005 with updates expected in March 2005.



*Airframe of first Maritime Patrol Aircraft being manufactured in EADS-CASA facility.*

## COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS, INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE (C4ISR) DOMAIN

- **MDAC** testing and evaluation center opened in April 2004, supporting all C4ISR deliveries. IBR of MDAC has been completed.
- **New C4ISR capability upgrades** installed aboard legacy **378-foot cutters** have recently resulted in critical successes and dramatic improvements in Coast Guard counter-drug operations.
- The first phase of upgrades, access to **Secret Internet Protocol Network (SIPRNET)** and classified networks has been completed on all **270-foot cutters and 378-foot cutters**.
- The program to complete **210-foot**, and enter phase 2 upgrades on **270- and 378-foot cutters**, continues with great success.
- **VUAV** CDR and **MPA** PDR was successfully supported.
- **C4ISR Increment #2** Preliminary Design has been awarded as Increment #1 Detailed Design continues.

## LOGISTICS DOMAIN

- Single Point Logistics Solution 123 and Logistics Operational Management developed.
- C4ISR Suite Operations Manuals for 123-foot patrol boats has been delivered.
- Draft of WMSL support nearing completion; efforts underway to complete analysis of human interface requirements for the NSC.

# DEEPWATER EXCELLENCE AWARDS PROGRAM

The Deepwater Team kicked off the Deepwater Excellence Awards Program (DEAP) with the presentation of awards to winners who were nominated for their outstanding work on the program throughout the 4th Quarter of calendar year 2004.

The purpose of this award program is to recognize individuals and teams who have made significant contributions to the Deepwater enterprise. The Deepwater program strives for innovation and improvement in the areas of product quality, technical innovation, cost control, schedule acceleration, organizational efficiency, and process improvement. Employees (both government and industry) considered for this award have demonstrated to peers, supervisors, subordinates and/or colleagues that they focus on customer satisfaction; display a "do it right the first time" attitude; develop work relationships based on trust and teamwork; continuously strive for improvement of products and services; and perform superbly in a position of responsibility or in the face of great challenges.

The Program Management Team is now accepting nominations for the 1st Quarter of 2005. The DEAP presentations for 1st Quarter winners will be held at the June QPMR meeting. Nomination forms and checklist can be found on the IPDE (Master Number 4036). For more information please contact Sheryle Yount (571) 218-3399 at the SIPO.

## Congratulations To 4th Quarter 2005 Winners Of The Deepwater Excellence Awards

LCDR Chad Jacoby  
LCDR Ray Engblom  
Lydia Dumas

Ken Kassel  
Carl Widberg  
James French  
Edward Litwa

### The C4ISR Return To Green Team

Pat Ewing  
Mike Clifford  
Tom Guerrasio  
Craig Savidge  
Jim Schreiber  
Steve Allen  
Terri Fanini

Dave Warshawsky  
Ron King  
Brian Frasco  
Gary Murphy  
Harry Colella  
PJ Messer  
Joe Ross

### The IMS Team

Rod Black  
Rick Bodin  
Darin Cowen  
Tai Okwesa  
Don Schranz  
Ian Johns  
Mike O'Connor  
Tom McKay  
Mark Dantoni  
Neal Elosge

Joe Saporetti  
Bob Lian  
Glenn Dedeaux  
Leroy Dickerson  
Paul Farve  
Charles Webb  
Mike Hanser  
Drake Broussard  
Mike Day

## Deepwater Staff Spices Things Up At The First Annual C4ISR Chili Cook-off

The C4ISR sponsored its first Chili Cook-off competition at the Systems Integration Program Office on March 7, 2005. Approximately 50 people joined in the festivities and sampled 10 delicious chili recipes. Awards were given in 3 categories in addition to an Honorable Mention. Tasting donations will be used for the next C4ISR off-site meeting. Thanks to everyone who participated in making this a very memorable event!

### **WINNERS:**

**Spiciest:** CWO Barry Boyd

**Best Name:** CWO Barry Boyd's "Exit Wound"

**Best Flavor:** Denise Randolph

**Honorable Mention:** LT David Murray's "After Burn"

### **JUDGES:**

Ameet Vaghela  
Doug Swiggart

LT Angelic Donovan  
Bill Mancini

Trent Kutsch

## Barry Boyd's Winning Recipe:

### "Exit Wound" Chili — Voted 'Spiciest' & 'Best Name'

- 1 can whole tomatoes (chopped)
- 1 whole onion
- 1 lb. ground beef
- 1 green pepper (optional)
- 2 jalapeño peppers – chopped & seeded (optional)
- 1 can tomato sauce
- 2 cans red kidney beans
- 3 or 4 tablespoons red chili powder
- 2 teaspoons garlic salt
- 2 tablespoons red cayenne pepper (add more if you like it HOT!)
- 2 tablespoons black pepper
- 1 to 2 cups water (more if you like it thick)

Brown ground beef, onion & peppers. Drain fat. Add whole tomatoes chopped. Add tomato sauce, kidney beans, and water. Bring to slight boil. Add chili powder, garlic, cayenne pepper and black pepper. Simmer at least 2-3 hours.

\*Hint: The longer it cooks the better - Use a large pot

## Ron Cone's Famous "German-Married-American-Chili"

- 3 onions, chopped
- 3 lbs ground beef
- 2 jalapeños, finely diced
- 28 oz crushed tomatoes
- 1 can tomato paste
- 40.5 oz light kidney beans, drained
- 40.5 oz dark kidney beans, drained
- 1 bottle dark beer
- 5 big cloves garlic, crushed

Sauté onions in olive oil. Add ground beef and brown. Add jalapeños, tomatoes, tomato paste, light and dark kidney beans, beer and garlic. Simmer and stir until heated through.

Transfer mixture to slow cooker or crockpot.

- 2 pinches Allspice
- salt to taste
- 6 dashes of Tabasco
- 1 Tbsp cayenne pepper
- 2 Tbsp chipotle pepper
- 6 bold dashes of liquid smoke
- 2 Tbsp. garlic powder
- LOTS of chili powder
- 3 Tbsp cumin
- 4 Tbsp brown sugar
- 3 Tbsp cocoa powder
- \_ Tbsp cinnamon

Add remaining ingredients. Let simmer forever. EAT ...

For more information, or to submit articles, photographs, etc., please contact the **Editor: Margaret Mitchell-Jones**, [margaret.mitchelljones@dwicgs.com](mailto:margaret.mitchelljones@dwicgs.com)