SUBMARINE ILLINOIS FLOATS OFF IN GRAVING DOCK 3; CHRISTENING IS SCHEDULED FOR OCT. 10
First Lady Michelle Obama Is The Ship’s Sponsor

U.S. Navy Awards EB $22 Million For USS North Dakota Maintenance and Modernization

The U.S. Navy has awarded Electric Boat a $22.3 million contract modification to prepare for and perform maintenance work on USS North Dakota (SSN-784), a Virginia-class attack submarine.

Under the terms of the award, Electric Boat will plan for and perform a post-delivery work period on the North Dakota, which consists of maintenance work, repairs, alterations and testing to ensure the submarine is operating at full technical capacity. Scheduled for completion in April 2016, the work will take place at the Electric Boat shipyard in Groton and involve up to 400 employees at its peak.

The contract is a modification to the eight-ship, $14 billion Block III Virginia-class submarine contract, which was awarded in December 2008.

New U.S. Navy Submarines and Surface Ships to have Advanced DMR Radios built by General Dynamics

New Digital Modular Radios will go onboard Navy destroyers and submarines now under construction.

FAIRFAX, Va.

The U.S. Navy has ordered 56 AN/USC-61(C) Digital Modular Radios (DMRs) and related equipment from General Dynamics. The newly built DMR radios will be capable of using the Mobile User Objective System (MUOS) waveform, the digital dial tone needed to make voice calls to the U.S. Department of Defense’s next generation, narrowband MUOS satellite communications system. The four-channel radios form the foundation of the Navy’s network communications aboard submarines, surface ships and on-shore locations. This order, valued at over $29 million, exercises an option on a contract awarded to General Dynamics in 2010.

“DMR is an extremely versatile radio and we continue to update its capabilities to ensure that Navy communications networks have the most advanced and secure technologies,” said Mike DiBiase, vice president and general manager of C4IRS Technologies for General Dynamics Mission Systems. “MUOS is an excellent example of an advanced capability that will provide smartphone-like connectivity among military personnel working in some of the toughest, most remote environments.”

Earlier this year, General Dynamics announced a software upgrade for existing DMRs that turns the radio’s four channels into eight virtual channels. This expanded communications capacity is available when sailors are using high frequency (HF) communication frequencies. As a software upgrade, the added capacity keeps the existing onboard DMR, saving the Navy the cost of replacing the physical radio or changing the configuration in space-constrained radio rooms.

The software-defined DMRs are one of the only military approved radios to communicate with Ultra-High Frequency SATCOM, Single-Channel Ground and Airborne Radio Systems (SINCGARS), Line of Sight and High Frequency radios on Navy vessels and land locations. General Dynamics has delivered more than 550 DMRs since 1998.

U.S. Navy Awards General Dynamics $20 Million to Continue Modernizing Submarine Tactical Weapons Systems

PITTSFIELD, Mass.

General Dynamics received a $20 million contract modification from the U.S. Navy to continue modernizing the AN/BYG-1 Weapons Control System (WCS) Technology Insertion and Advanced Processing Build software for U. S. Navy and Royal Australian Navy submarines. The AN/BYG-1 software analyzes and tracks submarine and surface-ship contact information, providing tactical, situational awareness for submarine crews including the capability to target and employ torpedoes and missiles.

“The AN/BYG-1 software program is an exceptionally cost-effective way for the Navy to quickly update and add capabilities to submarine weapon systems,” said Carlo Zaffanella, vice president and general manager of Maritime and Strategic Systems for General Dynamics Mission Systems. “Many of the system updates and capability improvements are the direct result of feedback from sailors and their commanders who work with the systems every day.”

First awarded to General Dynamics in 2009, the AN/BYG-1 software system uses commercial off-the-shelf hardware in an open-architecture computing environment ensuring that the submarine combat control systems are consistently maintained and updated with the latest technology advancements. The Navy’s Los Angeles, Seawolf, Virginia and SSGN-class submarines and the Royal Australian Navy’s Collins-class submarines use the AN/BYG-1 software and hardware.

Work on the AN/BYG-1 software system will take place at the General Dynamics facility in Pittsfield, Mass.
FALLS CHURCH, Va.

The board of directors of General Dynamics has elected Mark Malcolm to be a director of the corporation. He has been appointed to serve on the audit committee.

Malcolm is the president and chief executive officer of Tower International, Inc., a position he has held since August 2007. Tower International is one of the largest independent global suppliers of engineered automotive structural metal components and assemblies for major vehicle manufacturers.

Previously Malcolm worked for Ford Motor Company for 28 years, with his final position as executive vice president and controller of Ford Credit from 2004 to 2005. He also served as Ford’s director of Finance and Strategy, Global Purchasing from 2002 to 2004, and director of Worldwide Accounting from 2000 to 2002.

After he left Ford Motor Company, Malcolm was a senior advisor to Cerberus Capital Management from 2006 to 2007.

“With Mark’s experience at the helm of a publicly traded manufacturing company and his financial management background, he’s an important addition to our board,” said Phebe N. Novakovic, chairman and chief executive officer of General Dynamics.

Malcolm holds a bachelor’s degree from Dartmouth College and a master’s of business administration from the University of Chicago.

General Dynamics Elects Mark Malcolm to Board of Directors

General Dynamics recognizes transfer car improvement project

At the recent General Dynamics Manufacturing Excellence Award ceremony, Electric Boat was recognized for its project to reduce the number of transfer cars required to transport Virginia-class submarines and modules. At the ceremony were, front row, Chris D’Aiuto (D412), Edgar Smith (D501), Paul Carlson (D355), Phebe Novakovic, GD chairman and CEO, Rex Richardson (D252), Sharon Szelag (D201), Patricia McDaniel (D271) and Skip Castro (251). In the back row are Rick Gillette – GD Manufacturing Council Chair, Jeff Geiger, Electric Boat president, Joe Silva (D931), Paul Dagle (D508), Pete Halvorson, VP – Operations, Pete Willette (D252), Stan Gwudz (D200) and Glen Rice (D463). Members of the project team not in the photo are Matt Nickerson (D201), Brian Almeida (D201), Tracie Sandberg (D936), Keith Deshaies (D412), Karl Sommers (D355), James Henderson (D355), and Mark Rapp (D451).
Imagine sending a message under water using water to transmit it. Imagine what that could do for submarine communications.

Summer intern Andrew Levin imagined, investigated, and presented his findings, taking away 1st place in the company’s inaugural IRIS competition.

IRIS stands for Interns Researching Ideas for Submarines. Levin, a sophomore at Northwestern University in Electrical Engineering, proposed giving submarines a more effective way than radio or acoustic transmission to communicate using molecular-based technology and won a $200 gift card.

Levin worked at EB this summer as an intern in D432, Ohio Replacement (ORP) Platform Systems Integration. He declared that submarines could take some lessons from ants, which use molecular communication to “organize and work together, locate objects of interest or potential threats, and alert danger or distress.” Particularly pertinent to submarines, “molecules can both penetrate and be propelled through water, allowing for entirely new capabilities for submarine communication.” At the final presentation, his enthusiasm for the
technology’s potential was apparent:
“Insects use molecules to communicate, why can’t submarines?” asked Levin.
“Instead of being a tool, this communication capability could evolve our submarines to
being the leaders in the fleet!”

Researchers at the University of Warwick in England have already sent a text message
in a molecule, he noted.

Levin’s project was voted the best out of
the final top 10 of 33 accepted submissions in the competition that began in mid-June.
The judges were Blair Decker, vice president of quality and material; Ken Perry,
vice president of program integration and concept development; Greg Angelini, director
of engineering-electrical; Emil Casciano, director of engineering-mechanical and
components; and Priya Wing, program lead of advanced technology development.

Nicole Reid, IRIS program coordinator, was master of ceremonies at the final pre-
sentation. “The intent of the IRIS project is to engage and mentor our interns,” she said,
explaining how the program was modeled after the Technology Exploration (Tech-X)
DETECT Challenge conducted during Technical Excellence Week. DETECT (Discover
Emergent Technologies to Enhance the Capabilities of Tomorrow) challenged all EB
employees to uncover disruptive technologies for Virginia-SSN(X).

Similarly, the IRIS Project, which was advertised in Lotus Notes, a Splash Screen
and the Advanced Technology website in early June, challenged the company’s summer interns and co-ops to explore
technologies to enhance or disrupt future submarines.

All IRIS participants received a pizza lunch the day of the presentations and the
Top 5 also scheduled off-site VIP lunches with Executive Staff. The top five received
$200 gift cards for individual submissions and $350 gift certificates for group submissions.

Before the winners were announced, Perry commended the project and the contri-
butions of the interns. “This was a win for the interns to be able to do some research into an area of interest and a win for the company,” he said. “These projects were thought provoking and introduced us to some technologies we were not aware of yet.”

Perry also introduced U.S. Rep. Joe Courtney and University of Connecticut
(UConn) President Susan Herbst, who met with the interns during the pizza party after
the presentations.

The four other winning projects included
Water Repellent, Light Absorbing Metal, by Paul Calamari, who won second place. Calamari, a senior at Worcester Polytechnic Institute, was an intern in D486, ORP Auxiliars and Water Fluid Systems. Terahertz Sensors & Imaging by Cory Speroni won fourth place. Speroni, a senior at the University of Rhode Island, was an intern in D442, Command, Control, Communication, Computers, Intelligence, Surveillance, & Reconnaissance (C4ISR) Systems Integration and Engineering. The Sea-to-Air Hybrid Habitual Drone by John Zastowsky won fifth place. Zastowsky was an intern in D414, Propulsion Plant Test Equipment Engineering Group.

The technical evaluation criteria for the projects included their potential to signif-
ically enhance submarine operations and missions or conversely, if the technol-
yogy is in the hands of an adversary, threaten U.S. submarine capability. Also, reviewers looked at the design, build, sustain implications: Does it decrease costs? Does it reduce the time it takes to deliver a capability to the warfighter? Could it revolutionize the way EB designs, builds, and maintains nuclear submarines? Could it help EB enter adjacent markets?

The CONFORM Group’s Technology Area Team leaders culled the initial submissions to the top 10. “They could place 10 votes on one submission or put one vote on 10 different submissions, and any combination in between,” said Greg Gathy (D400), principal investigator for the Tech-X program, who helped Reid and Wing set up the IRIS project.

After the event, Perry remarked that “the energy and enthusiasm of the interns
sparked a lot of creativity in the various projects. In addition to exploring innovative concepts and new technologies, the interns proved themselves very capable of collaborating in teams across technical disciplines and with students from other universities. They showed a lot of promise as engineers of the future in technolo-
gies that matter. With the success of this year’s first-ever IRIS event we’re already looking forward to more IRIS events in the future.”
EB BUSINESS ETHICS AND CONDUCT

IN THE LAST SEVERAL MONTHS HAVE I...

► Conducted personal business on company time?
► Taken company resources for personal use?
► Used a derogatory term when referring to another person?
► Told or repeated an ethnically or sexually oriented joke?
► “Bad mouthed” the company or management to co-workers?
► Snooped” into another person’s conversations or private affairs?
► Knowingly ignored or violated a company rule or procedure?
► Failed to follow through on something I said I would do?
► Withheld information needed by others?
► Knowingly mischarged time?
► Knowingly not accounted for an extended lunch period?
► Knowingly delivered a poor quality or defective product or service?
► Accepted an inappropriate gift or gratuity?
► Taken or accepted credit for something that someone else did?
► Failed to admit or correct a mistake that I made?
► Knowingly let someone mess up and get into trouble?

Hopefully you were able to answer NO to all questions. If you weren’t, please keep this self-assessment for guidance and future reference.

EB Ethics Director Frank Capizzano (860-433-1278) is available to confidentially assist anyone with questions or issues that may relate to ethical decision making. The GD Ethics Hotline is available 24/7 and may be reached at (800-433-8442) or (503-619-1815) for International callers who wish to report a possible ethics violation. Online access to the Hotline is also available at www.gd.ethicspoint.com for anyone who needs to confidentially ask a question, express a concern or report suspected ethical misconduct.

Remember — When in doubt, always ask.
service awards

45 YEARS
228 Edward E. Barber
244 Victor R. Jenschke
330 Mary Anne Alfieri
356 John R. Morris
425 Ronald G. Espinosa

40 YEARS
2201 Leonard J. Devoe
201 Gary M. Slater
252 James E. Chapman
356 Alan G. Kuhse
408 George D. Mowell
426 William D. Higgins
452 Bernard L. Delion Jr.

35 YEARS
456 Dennis J. Severns
501 Antonio A. Tavares
795 Thomas K. Kiley
904 Bernard L. Brammall
911 Peter D. Lee
935 Norman J. Baxter Jr.

456 Gary J. LaBelle
321 Harry H. Hubbell Jr.
341 Magaly Lopez
355 Michael J. McCarthy
401 Stephen R. Menno
403 Raymond A. Hamilton Jr.
428 William D. Minor Jr.
433 Brian P. Huard
452 John D. Kress ley
453 Ernest R. Wightman
455 Rita A. Grant
456 James Bass
456 Michael H. Cahoon
459 Sherman L. Montgomery

459 Robert W. Perry
459 Michael S. Sandrey
459 Harry W. Smullen
460 Gary A. Deal
462 Wilford L. Kalbach
626 John C. Brown
645 Ellen M. Romyns
650 William P. Heuer Jr.
660 Rosemary A. Rendeiro
902 Michael R. Flanagan
912 Eduardo Espinosa
915 Lascom E. Rice
915 Leonard L. Totten
915 Stuart Fraser

30 YEARS
229 John R. Myshka
433 Peter J. Smith
442 Jay L. Moss
545 James V. Lewis
553 James K. O’Neill
615 Steven J. McAuliffe
660 Donald S. Kuchyt
915 Charles Botelho
935 William E. Rekut

25 YEARS
246 Steven L. McNair
271 Jennifer L. Topham
330 Donald T. Connors

452 Stephen E. Babik
762 Anthony J. Priolo
904 Raymond E. Lavoie

20 YEARS
409 John D. Consiglio
425 Phillip E. Newman
428 Stephen J. Dicarlo
434 Stephen J. Tokarski
452 Thomas Reed
453 Shawn D. Hataway
453 Steven N. Karavolis
463 Lei-chen Chu
464 Mark W. Johnson
472 William P. Lambing
481 Edward A. Bradley Jr.
WHERE WE STAND

THE 2015 EMPLOYEE INCENTIVE PROGRAM

AUGUST

<table>
<thead>
<tr>
<th>2nd Half of Year EMPLOYEE INCENTIVE GOALS – Completion Date December 31, 2015</th>
<th>Target Dates</th>
<th>Status 8/29/15</th>
<th>Value</th>
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<td>Achieve Organizational Health and Safety Goals (Must Achieve 2 of 3 Full Year Goals to Earn Incentive)</td>
<td>Dec ’15</td>
<td>$250</td>
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<tr>
<td>• Greater than 80% Participation in “It All Counts”</td>
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<td>68%</td>
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<tr>
<td>• Safety Training Participation of 92% @ Groton &amp; QP</td>
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<td>65.3% Groton 64.4% QP</td>
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<td>• Achieve LWIR of 1.8 or Less</td>
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<tr>
<td>Earned Hours Goal = 10.6 Million Hours</td>
<td>Dec ’15</td>
<td>1.5M Hours 120K Behind</td>
<td>$250</td>
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<tr>
<td>Achieve Key Events while meeting established quality metrics (Must Achieve 3 of 5 Events to Earn Incentive)</td>
<td>Dec ’15</td>
<td>$250</td>
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<tr>
<td>• Complete 786 Habitability Inspection</td>
<td>Oct ’15</td>
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<tr>
<td>• Ship MTS Reactor Compartment Forward Module from QP</td>
<td>Oct ’15</td>
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<tr>
<td>• Complete Reactor Compartment End Load into Section 5 of 788</td>
<td>Dec ’15</td>
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<td>• Complete 850 Ohio Replacement Arrangements</td>
<td>Dec ’15</td>
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<td>• Complete 750 Reactor Compartment Deck</td>
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Colors: Green – On Track, Yellow – At Risk But Achievable, Red – High Risk