

# Ameresco, Bright Canyon Energy Host Groundbreaking Ceremony for Kūpono Solar at Joint Base Pearl Harbor-Hickam

FRAMINGHAM, Mass., PHOENIX, Ariz. and HONOLULU, Hawaii – [Ameresco, Inc.](#), a leading clean technology integrator specializing in energy efficiency and renewable energy, and [Bright Canyon Energy](#), a leading developer of energy infrastructure, hosted a groundbreaking and blessing ceremony for the Kūpono Solar Project on Friday, October 7, 2022, Ameresco said in a release.

This combined solar and battery storage system will be built at the Joint Base Pearl Harbor-Hickam West Loch Annex in Hawai'i. Once operational, the project is designed to deliver 42 megawatts (MW) of clean, renewable energy to Hawaiian Electric's (HECO) grid on the island of O'ahu. Attendees at the event heard from U.S. Senator Mazie Hirono, Lt. Governor Josh Green, and Meredith Berger, Assistant Secretary of the U.S. Navy for Energy, Installations, and Environment.

Using approximately 131 acres of Federal land, the Kūpono Solar Project will feature the installation of a 42-MW photovoltaic solar array and 42 MW/168 MWh (four-hour duration) of lithium-ion battery storage system. The batteries are designed to store solar energy beyond sunset hours, enabling the project to deliver sustainable, renewable energy to power approximately 10,000 homes on O'ahu. Additionally, once fully operational, the project is expected to reduce more than 50,000 tons of carbon dioxide annually from Hawai'i's environment, which is the equivalent to offsetting emissions

from 12,000 cars annually.

“Today, we are taking significant strides to strengthen our state’s energy security and resilience, and thanks to the ‘Ewa community, Navy, Hawaiian Electric, Ameresco and Bright Canyon Energy, we are now steps closer to reaching Hawai‘i’s renewable energy vision of achieving 100% clean energy by 2045,” said Lt. Governor Josh Green. “Kūpono Solar is a landmark initiative for us that will not only benefit our state’s economy but will also bolster our sustainability efforts and local communities through stable, affordable energy, innovative technology and job creation.”

Ameresco and Bright Canyon Energy established a joint venture in 2021 known as Kūpono Solar Development Company, LLC to advance the Kūpono Solar Project, which is the first project of the joint venture. In support of the Department of Defense’s long-term energy security initiative to increase clean energy reliability and military capabilities, and the state’s goals of renewable energy and decarbonization, Kūpono Solar has a 37-year land lease agreement with the Navy to provide critical energy resiliency upgrades for O‘ahu.

“The Department of the Navy is proud to partner with the Kūpono Solar team and Hawaiian Electric as we enhance mission and community resilience and move purposefully towards Hawaii and Navy’s energy goals,” said Meredith Berger, Assistant Secretary of the Navy for Energy, Installations and Environment. “This is a great example of climate action, building access to clean, reliable energy sources inside and outside the fenceline.”

Kūpono Solar will own and operate this solar and battery project under a 20-year power purchase agreement with Hawaiian Electric. The project will benefit the state’s long-term clean energy transition plan while setting the foundation for Ameresco and Bright Canyon Energy to bring a diversified portfolio of clean energy solutions to Hawai‘i in the future.

“The start of this project comes at a time when the need for consistent energy security and independence is at an all-time high,” said Nicole Bulgarino, Executive Vice President and General Manager of Federal Solutions, Ameresco. “The solar and battery storage solutions that are being implemented will deliver clean, renewable energy to the grid and benefit businesses and residents across Hawai‘i.”

“Through our strategic relationships with the Navy, Hawaiian Electric and the community, we are able to leverage clean technology and infrastructure upgrades to help the state of Hawai‘i reach its renewable energy goals and the Navy achieve its climate and energy resiliency objectives,” said Jason Smith, General Manager, Bright Canyon Energy. “It’s energizing to work with a group of partners committed to bringing this key energy infrastructure to O‘ahu and its residents.”

Construction on the Kūpono Solar Project is expected to be completed in early 2024.

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## **22nd MEU, Kearsarge ARG Return from Seven-Month Deployment**



U.S. Navy Construction Mechanic 3rd Class Brandon Baker, assigned to Beach Master Unit (BMU) 2, directs a light armored vehicle, assigned to the 22nd Marine Expeditionary Unit (MEU), off Landing Craft Air Cushion 83, assigned to Assault Craft Unit (ACU) 4, in Morehead City, North Carolina, Oct. 8, 2022.  
*U.S. NAVY / Mass Communication Specialist 1st Class John Bellino*

MARINE CORPS BASE CAMP LEJEUNE, N.C. – Sailors and Marines assigned to the 22nd Marine Expeditionary Unit (MEU) returned home to Camp Lejeune, North Carolina, Oct. 9, 2022, after completing a seven-month deployment with the Kearsarge Amphibious Ready Group (ARG) in the U.S. Naval Sixth Fleet area of operations. The Kearsarge ARG is comprised of the Wasp-class amphibious assault ship USS Kearsarge (LHD 3), the San Antonio-class amphibious transport dock ship USS Arlington (LPD 24) and the Whidbey Island-class dock landing ship USS Gunston Hall (LSD 44).

The deployment marked the first time an ARG/MEU maintained a six-month presence in the Baltic region in over 20 years. More than 4,000 Marines and Sailors supported a wide range of

interoperability training and exercises in 15 countries within U.S. Sixth Fleet; covering the High North/North Atlantic, Central Mediterranean, and Baltic regions promoting stability, increasing interoperability, sustaining combat readiness, and crisis response capabilities while strengthening relationships with both NATO Allies and partners.

“Our time in the Baltics and the High North was particularly valuable,” said Col. Paul C. Merida, commanding officer, 22nd Marine Expeditionary Unit. “I think all of us in the 22nd MEU came away extremely impressed with the level of military professionalism that our friends in the region possess and the level of enthusiasm for real, integrated defense cooperation was profound wherever we visited. I believe future east coast MEUs will find the High North and the Baltics not only a challenging training environment but a region full of very capable friends and allies.”

Exercises in the Arctic Region included Northern Viking 2022, a multinational amphibious and maritime exercise alongside Allied nations from France, Germany, Iceland, Norway and the United Kingdom; and a two-week bilateral exercise in northern Norway and the Norwegian Sea, exercising integrated cold weather and live- fire training with the Norwegian Armed Forces.

In the Central Mediterranean, Marines and Sailors assigned to USS Arlington participated in bilateral exercises such as Alexander the Great 22, a bilateral U.S.-Greece (Hellenic) amphibious training event; EFES 22, a biennial, multinational, combined, joint and live firing exercise with Turkish Armed Forces and U.S. Army’s Explosive Ordnance Disposal (EOD) and medical teams; as well as African Lion 22, an exercise enhancing the U.S. African Command’s partnership and security cooperation with the Tunisian Ministry of Defense.

While operating in the Baltic region, Kearsarge and Gunston Hall participated in an Estonian-led exercise, Hedgehog (Siil)

22 with Estonian Defense Forces and forces from Task Group 61/2.4 and the NATO-led exercise Neptune Shield. All of these exercises incorporated 18 NATO Allies and partners working together through multiple domains throughout the European continent and waters. In June, Kearsarge and Gunston Hall participated in the joint, annual multinational exercise, Baltic Operations (BALTOPS 22) designed to enhance interoperability, capability and demonstrate cohesion among Allied and partner forces in defending the Baltic Sea region.

Following BALTOPS22 and AL22, the Kearsarge ARG-MEU conducted scheduled maintenance availability periods in Brest, France, Rijeka, Croatia, and Copenhagen, Denmark throughout July 2022. The maintenance availability periods, which included mid-deployment voyage repair (MDVR) evolutions, allowed U.S. Navy ships to accomplish necessary and preventative repairs to continue their missions in the region while simultaneously strengthening relationships with host nations.

Once MDVRs were successfully completed, the Kearsarge ARG-MEU team returned to the Baltic region as a combined force to continue strengthening relationships and partnerships. Through rapid planning, coordination, and execution, the ARG-MEU team successfully completed bilateral training events with Finland, Sweden, and Standing NATO Maritime Group ONE (SNMG 1) during the months of August and September.

Upon conclusion of operations in the Baltic region, the ARG-MEU successfully completed a cumulative of 29 port visits across the ARG visiting 14 NATO Allied and partner countries including Reykjavik, Iceland; Narvik and Tromsø, Norway; Volos and Alexandroupoulos, Greece; Tallinn, Estonia; Helsinki, Finland; Stockholm and Visby, Sweden; Gabés, Tunisia; Kiel, Germany; Brest, France; Rijeka, Croatia; Copenhagen and Kalundborg, Denmark; Riga, Latvia; Klaipeda, Lithuania; and Gdańsk and Gdynia, Poland. During each visit, the ARG-MEU engaged with representatives from embassies, ministries of

defense, and local government, military and civilian officials to strengthen relationships with NATO Allies and partners through in-person key leader engagements and exchanges including media availabilities, ship tours, office calls, ceremonies and receptions, and community service projects.

“After a busy seven-month deployment it’s good to get the 22d MEU team back home to Lejeune,” Col. Paul Merida said. “We believe this was the first East Coast MEU deployment in a long while that was spent entirely in the 6th Fleet area of operations and the Marines did a tremendous job operating from above the Arctic Circle, to the Baltics, to the Mediterranean Sea. All of this was done with the backdrop of the Russia-Ukraine War, which added an additional sense of importance to our work; much of which was done alongside our NATO Allies and other key regional partners. Our families and friends should be proud of the service their Marines rendered and I believe the 22nd MEU has represented II Marine Expeditionary Force and the U.S. Marine Corps accordingly.”

The 22nd MEU’s mission is to provide the United States with a forward-deployed, amphibious force-in-readiness capable of executing missions across the full spectrum of combat and military operations and consists of four elements – a command element, a ground combat element, Battalion Landing Team (BLT) 2/6, a logistics combat element, Combat Logistics Battalion (CLB) 26, and an aviation combat element, Marine Medium Tiltrotor Squadron (VMM) 263 Reinforced.

The ARG-MEU’s presence overseas in U.S. Sixth Fleet area of operations supported strategic interests and contributed to regional security and stability and reassured the United States commitment to the High North, Mediterranean, and Baltic regions. The blue-green team provided operational flexibility to combatant commanders by providing a versatile contingency response force using sea, air, land and logistical assets. The versatility inherent to the amphibious force allowed for flexible and mission-tailored forces, while representing our



nation's strength, capability and resolve to partners and allies and deterring potential adversaries.

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## Navy Demonstrates VLS Reload in San Diego Harbor



Sailors aboard Arleigh Burke-class guided-missile destroyer USS Spruance (DDG 111) guide training ordnance into the ship's forward vertical launch system (VLS) cells during a proof-of-concept evolution in San Diego, Oct. 4. *U.S. NAVY / Mass Communication Specialist 3rd Class Taylor Crenshaw*

SAN DIEGO – The U.S. Navy is scheduled to demonstrate re-arming the vertical launch system aboard Arleigh Burke-class destroyer USS Spruance (DDG 111) at Naval Air Station North Island and in the San Diego Harbor from Oct. 4 – 7, Commander, U.S. Third Fleet Public Affairs said in an Oct. 6 release



This will be the first time the Navy has tested VLS reloading from an offshore support vessel platform, using Military Sealift Command fleet experimentation ship MV Ocean Valor.

The demonstration is being conducted to provide proof of concept that an offshore support vessel can reload the weapons system pierside and while the ship is at sea, with a goal of expanding the capability of VLS reloading in expeditionary environments.

The launch system re-load has been tested previously, in 2016 and 2019, using other Military Sealift Command platforms.

Spruance, named for Adm. Raymond A. Spruance, who commanded U.S. forces at the Battle of Midway, is homeported in San Diego. The ship returned to the Naval Base San Diego in August following a seven-month deployment with Carrier Strike Group 3 to the U.S. 3rd and 7th Fleets. Spruance was also one of 38 ships from 26 partner nations who took part in Exercise Rim of the Pacific 2022 in the Hawaiian Islands Operating Area from June to August.

Built in 2002, MV Ocean Valor is an MSC-contracted vessel that supports logistics experimentation for fuel, stores, passengers and ordnance delivery.

The demonstration will not include live ordnance and there is no danger posed to the residents of San Diego, the harbor or sea life.

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## **Future USS Lenah Sutcliffe**

# Higbee Completes Acceptance Trials



The future USS Lenah Sutcliffe Higbee (DDG 123) completed Acceptance trials, Oct. 6. *HII*

WASHINGTON – The future USS Lenah Sutcliffe Higbee (DDG 123) completed Acceptance trials, October 6, Team Ships Public Affairs said in a release.

During trials, the Navy's Board of Inspection and Survey inspected the ship performing a series of demonstrations while pier side and underway to validate performance. The ship's onboard systems, including navigation, damage control, mechanical and electrical systems, combat systems, communications and propulsion applications, met or exceeded Navy specifications.

DDG 123 is named for the first ever woman to receive the Navy Cross, Lenah Sutcliffe Higbee. Higbee served in the Navy for 14 years, including 11 as superintendent of the U.S. Navy Nurse Corps. She joined the Navy Nurse Corps in October 1908 and was promoted to chief nurse less than a year later. She

was named superintendent in January 1911.

“We are proud to introduce another advanced warship to the fleet,” said Capt. Seth Miller, DDG 51 program manager, Program Executive Office (PEO) Ships. “The Navy is honored to recognize Lenah Sutcliffe Higbee with this fully capable, mission-ready ship.”

The DDG 51 Arleigh Burke-class ships are multi-mission guided missile destroyers designed to operate offensively and defensively, independently, or as units of Carrier Strike Groups, Expeditionary Strike Groups, and Surface Action Groups in multi-threat environments that include air, surface and subsurface threats. These ships will respond to Low Intensity Conflict/Coastal and Littoral Offshore Warfare scenarios, as well as open ocean conflict, providing or augmenting power projection, forward presence requirements and escort operations at sea.

DDG 123 is a Flight IIA destroyer equipped with the Aegis Combat System Baseline 9C2. This system delivers quick reaction time, high firepower and increased electronic countermeasures capability against a variety of threats.

The ship is expected to be delivered to the Navy later this year from Huntington Ingalls Industries’ Ingalls Shipbuilding division in Pascagoula, Mississippi. The shipyard is also in production on future destroyers Jack H. Lucas (DDG 125), Ted Stevens (DDG 128), Jeremiah Denton (DDG 129) and George M. McNeal (DDG 131).

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# U.S., U.K. Navies Conduct Unmanned Exercise in Arabian Gulf



Naval forces from the United States and United Kingdom conducted a bilateral exercise in the Arabian Gulf, Oct. 7. *U.S. NAVY*

MANAMA, Bahrain – Naval forces from the United States and United Kingdom conducted a bilateral exercise in the Arabian Gulf, Oct. 7, which featured the use of unmanned systems and artificial intelligence to enhance maritime monitoring by crewed ships and operators ashore, U.S. Naval Forces Central Command Public Affairs said in an Oct. 7 release.

The one-day exercise, called Phantom Scope, occurred in international waters off the coast of Bahrain with forces from

U.S. 5th Fleet and the UK Royal Navy. Three Saildrone Explorer unmanned surface vessels (USVs) participated alongside guided-missile destroyer USS Delbert D. Black (DDG 119), fast response cutter USCGC Robert Goldman (WPC 1142) and Royal Navy mine countermeasures vessels HMS Chiddingfold (M37) and HMS Bangor (M109).

“Putting more eyes out on the water enhances our picture of the surrounding seas and enables us to position our crewed ships to react more rapidly,” said Vice Adm. Brad Cooper, commander of U.S. Naval Forces Central Command, U.S. 5th Fleet and Combined Maritime Forces.

During the exercise, unmanned and artificial intelligence systems operated in conjunction with crewed ships and naval command centers ashore in Bahrain. Sensors from unmanned vessels were able to locate and identify training aides in the water and relay visual depictions to the command centers.

“Whenever we work in the maritime environment, particularly when working alongside international partners, it is critical we have relevant maritime domain awareness,” said Royal Navy Commodore Adrian Fryer, commander of UK’s maritime component based in the Middle East.

“Alongside the more traditional methods, uncrewed systems are an essential tool, and the future, in building this understanding, the picture they provide can enhance the security and stability of the maritime environment,” Fryer added.

U.S. 5th Fleet established an unmanned systems and artificial intelligence task force in September 2021 to integrate new technologies into U.S. Navy operations across the Middle East.

In the past 12 months, Task Force 59 has amassed more than 25,000 hours of experience integrating new unmanned systems and artificial intelligence. The task force has also



established operating hubs in Bahrain and Aqaba, Jordan in close cooperation with regional partners.

“We have already achieved more today than many might have imagined possible when we started,” said Cooper. “Our goal is a distributed and integrated network of systems operated with our partners to significantly expand how far we can see.”

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# General Dynamics Electric Boat Awarded \$533 Million for Virginia-Class Submarine Support



Virginia-class attack submarine. *GENERAL DYNAMICS*  
GROTON, Conn. — General Dynamics Electric Boat, a business unit of General Dynamics, announced Oct. 6 it was awarded a



U.S. Navy contract modification for lead-yard support, development studies and design efforts related to Virginia-class attack submarines.

The contract modification has a value of \$532.9 million. Work will be performed in Groton, Connecticut, and Newport News, Virginia, and is expected to be completed by October 2023.

“We are proud to continue to support the design and engineering of Virginia-class submarines to ensure they have the superior warfighting capabilities the U.S. Navy needs to defend our Nation,” said Kevin Graney, president of Electric Boat. “The continued evolution of the Virginia class over the last two decades guarantees our sailors the asymmetric advantage they deserve.”

General Dynamics Electric Boat designs, builds, repairs and modernizes nuclear submarines for the U.S. Navy. Headquartered in Groton, the company employs approximately 18,000 people.

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## **Navy Invests in Land-Based Test Site for New Frigate**



An artist's conception of the future USS Constellation. *FINCANTIERI MARINETTE MARINE* ARLINGTON, Va. – The U.S. Navy has invested funding toward building the land-based engineering test site for the Constellation-class guided-missile frigate (FFG).

The Navy's Supervisor of Shipbuilding, Conversion, and Repair, Bath, Maine, has awarded to Fincantieri Marinette Marine, Marinette, Wisconsin, a \$76.7 million firm-fixed-fee contract modification "for procurement of long-lead time material for the land-based engineering site for the Constellation-class frigate," the Defense Department contract announcement said.

The land-based test site to be built in Philadelphia will be used to test the propulsion system and other machinery of the frigate design to reduce risk and identify and fix problems before they would be manifest in the lead ship of the class.

The land-based engineering test site was mandated by the Fiscal 2021 National Defense Authorization Act as an expression on Congressional intent regarding solving engineering problems as construction proceeds.

The construction of the U.S. Navy's next class of guided-

missile frigates officially began Aug. 31 with the first steel for the ship cut in a small ceremony at the Fincantieri Marinette Marine Shipyard in Marinette, Wisconsin.

The future USS Constellation (FFG 62) will be the lead ship of a class of at least 20 frigates and is slated for delivery in 2026. The hull of the frigate is to be based on the Italian FREMM-class frigate and will be equipped with proven weapons and combat systems.

Work on the contract is expected to be completed by October 2025.

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## **Navy Opens New Additive Manufacturing Center of Excellence; Announces New Regional Training Center in Danville, Va.**

DANVILLE, Va. – On Oct. 5, the U.S. Navy celebrated the formal opening of its Additive Manufacturing Center of Excellence (AM CoE) within the State of Virginia's Center for Manufacturing Advancement (CMA) on the Institute for Advanced Learning and Research (IALR) campus in Danville, Virginia, Team Submarine Public Affairs said in an Oct. 6 release.

The AM CoE is co-located with IALR's Accelerated Training in Defense Manufacturing (ATDM) Program, which is a joint U.S. Navy-Office of the Secretary of Defense Industrial Base Analysis and Sustainment effort that provides a fast track,

intensive, and targeted curriculum across key trades, including welding, machining, metrology, and additive manufacturing.

The new AM CoE will include three full bays dedicated to accelerating and scaling additive manufacturing, activating the supply chain through a centralized Navy demand signal, and serving as an operational hub that builds upon experience and collaboration across a consortium of industry and academic experts.

The official ribbon-cutting ceremony took place during the Second Annual ATDM Summit, which brought together U.S. Navy, Office of the Secretary of Defense, federal, state and local government officials, as well as defense, industry and academic partners, to discuss the importance of creating a ready and capable workforce and sustaining robust trade pipelines and strong industry partnerships to close the trade and manpower gaps impacting the defense industry.

Virginia Governor Glenn Youngkin kicked off the Summit in front of a crowd of 300 people.

“We are honored to be partnered with the Navy. This partnership will diversify, transform and grow Southern Virginia’s production capability for the Submarine Industrial Base as well, marking another major win for Virginia’s defense economy and labor market,” Youngkin said.

During live, virtual remarks, Secretary of the Navy Carlos Del Toro addressed the imperative for programs like ATDM.

“To strengthen our maritime dominance, we have to field and maintain the right capabilities to deter adversaries and, when called upon, to win wars,” Del Toro said. “Graduates of the ATDM Program will enter the workforce with the specific skills and nationally recognized certifications we need now, with true, hands-on experience through facilities like the new Additive Manufacturing Center of Excellence.”

Vice Adm. William Galinis, commander, Naval Sea Systems (NAVSEA), provided his perspective on the efforts happening in Danville and how they are poised to support the broader Navy enterprise.

“This is an ‘All Hands on Deck’ endeavor, and ensuring we have a ready and capable workforce is at the top of the list in things we must get right,” he said.

“The creation of the AM CoE marks the first major partnership for the CMA, and demonstrates the Navy’s commitment to investing in – and delivering – the skilled workforce necessary to strengthen and expand the Navy’s industrial base to achieve the Nation’s strategic defense objectives,” said Matthew Sermon, the executive director of Program Executive Office, Strategic Submarines (PEO SSBN).

“Building and sustaining the Navy’s defense industrial base workforce, and smartly but aggressively pushing the bounds of advanced technology adoption, has become a national security imperative and is part of the whole-of-government/whole-of-industry approach,” Sermon continued. “This facility, and the partnerships it is built upon, will pave a path for sustainable and scalable additive manufacturing production capability in the submarine industrial base, and across the Navy-industry community.”

PEO SSBN’s Rear Adm. Scott Pappano cut the ceremonial ribbon, and also announced plans for key investments into dedicated infrastructure, capability, and capacity designed to scale the current ATDM program through a Regional Training Center, which will sit adjacent to the AM CoE and will have the capacity to train approximately 1000 defense manufacturing workforce members each year.

“ATDM serves as a national model for how we meet the demand for industrial base workforce over the coming years,” Pappano said. “As we look to our greatest threats and risk, we must

make bold moves...that's exactly what we are doing here in Danville. The events we celebrate today – centered on workforce, technology, and the space where those two priorities must meet – are game changing for our enterprise.”

U.S. Sens. Mark Warner and Tim Kaine, U.S. Rep. Bob Good, and U.S. Department of Labor Assistant Secretary for Veterans' Employment and Training Service (VETS) James D. Rodriguez were among the distinguished guests who provided their overwhelming support for both the workforce and technology efforts happening as part of the region's partnership with the Navy.

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## **Navy Approves Northrop Grumman's New Navigation Capability for Fleet Deployment**





Sailors stand watch on the bridge aboard the Arleigh Burke-class guided-missile destroyer USS Roosevelt (DDG 80) as the ship conducts a replenishment-at-sea with the dry cargo and ammunition ship USNS William McLean (T-AKE 12), Oct. 1, 2022. *U.S. NAVY / Mass Communication Specialist 2nd Class Danielle Baker*

CHARLOTTESVILLE, Va.— The U.S. Navy has approved Northrop Grumman Corporation's new Electronic Chart Display and Information System (Navy ECDIS) for deployment to its fleet, the company said in an Oct. 5 release.

The Navy's Operational Test and Evaluation Force (OPTEVFOR) issued a formal determination that Navy ECDIS is "operationally suitable, operationally effective and cyber survivable." This new capability will be a core element to all U.S. Navy bridge and navigation systems.

Navy ECDIS processes and displays multiple chart formats including digital nautical charts developed by the National Geospatial-Intelligence Agency. The system tracks targets from the vessel's navigation radar, enabling creation of route plans, automation of plan execution and monitoring progress

along the route. Safety checking functions analyze chart data and radar targets to warn of hazards to safe navigation while underway.

“Our agile approach to developing Navy ECDIS enabled software to be developed in sprints, with customer input at every step of the way,” said Todd Leavitt, vice president, naval and oceanic systems, Northrop Grumman. “This workflow allowed the Navy to see and evaluate results of their input as they came up and saved them both time and money.”

Navy ECDIS will provide the next generation of navigation capabilities to the fleet including compliance with the standard for mission interoperability with NATO allies, implementing cybersecurity requirements as well as enhancements to the human machine interface to simplify operation, improve situational awareness and increase the safety of navigation.

OPTEVFOR’s approval of Navy ECDIS is the culmination of nearly a year of rigorous government testing. The test and approval process began with sea trials on the amphibious assault ship USS Kearsarge (LHD 3) and continued with evaluation activities at Naval Surface Warfare Center, Philadelphia Division (NSWCPD).

The Navy has directed the Nimitz-class aircraft carrier USS Theodore Roosevelt (CVN 71) to be the first ship in the fleet to receive Navy ECDIS. NSWCPD will perform the installation this October. The Navy plans to install the system on 115 ships in the next three years, demonstrating the power of scalability of software defined systems such as Navy ECDIS.

Northrop Grumman developed and fielded the Navy’s current ECDIS software, Voyage Management System, which has since become a core element of the bridge and navigation system on every U.S. Navy ship and submarine. Northrop Grumman’s broad range of navigation systems provides precise, survivable,

secure, resilient and agile solutions for sea, land, air and space.

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# Keel Authenticated for the Future USNS Saginaw Ojibwe Anishinabek



The keel for the future USNS Saginaw Ojibwe Anishinabek (T-ATS

8) was ceremonially laid at Bollinger Houma Shipyards in Houma, LA, Oct. 3. *Bollinger Houma Shipyards*

WASHINGTON – The keel for the future USNS Saginaw Ojibwe Anishinabek (T-ATS 8) was ceremonially laid at Bollinger Houma Shipyards, Oct. 3, Team Ships Public Affairs said in an Oct. 5 release.

Named for the Saginaw Chippewa Tribe, the ship honors the original people of modern-day Michigan and their proud tradition of service to their country. Ojibwe is also referred to as Chippewa and Anishinabek means “original people.” The keel authenticator was the Honorable Theresa Peters Jackson, Chief of the Saginaw Chippewa Tribe.

“This is an awesome Navy day as we gather to celebrate this multi-mission platform and the range of capabilities it will bring to the fleet, including towing, salvage, rescue, oil spill response and humanitarian assistance,” said Rear Adm. Tom Anderson, Program Executive Officer, Ships. “It is an honor to be joined by members of the Saginaw Chippewa Tribe as the keel is authenticated for their namesake ship and we are excited to honor their heritage and commitment to service of country.”

The Navajo class (T-ATS) provides ocean-going tug, salvage, and rescue capabilities to support fleet operations. T-ATS replaces and fulfills the capabilities that were previously provided by the Fleet Ocean Tug (T-ATF 166) and Rescue and Salvage Ships (T-ARS 50) class ships.

In addition to T-ATS 8, Bollinger is constructing USNS Navajo (T-ATS 6) and USNS Cherokee Nation (T-ATS 7) and is under contract for USNS Lenni Lenape (T-ATS 9) and USNS Muscogee Creek Nation (T-ATS 10).