

BAE Systems Awarded \$1.7B Navy Contract for APKWS Laser-Guidance Kits



Contract enables production of tens of thousands of guidance kits for effective, cost-efficient precision strikes

Release From BAE Systems

HUDSON, N.H. – December 10, 2025 – The U.S. Navy has awarded BAE Systems a new five-year, indefinite delivery, indefinite quantity contract for [APKWS® laser-guidance kits](#) to equip U.S. armed forces with tens of thousands of additional low-cost precision munitions. The contract has a maximum value of \$1.7 billion, with an initial \$322 million order.

The new contract supports increased domestic and international demand, enabling the Navy to purchase APKWS guidance kits over a five-year period. The kits are available to all U.S. armed forces, as well as allies via foreign defense sales. The APKWS guidance kit completes the mission and controls the cost. APKWS kits are combat proven as an air-to-surface, surface-to-

surface, surface-to-air, and air-to-air munition.

“This award reinforces the value of proven and cost-efficient precision munitions, which have consistently demonstrated their effectiveness and versatility across multiple platforms and missions,” said Neeta Jayaraman, director of Precision Guidance and Sensing Solutions at BAE Systems. “The APKWS guidance kit provides advanced capabilities to our armed forces and foreign allies, and high-volume production ensures rapid and efficient delivery to the warfighter.”

APKWS guidance kits transform unguided 2.75-inch rockets into laser-guided rockets for precision strikes. Operators can use the combat-proven kit to engage a range of soft and armored stationary and moving targets, minimizing collateral damage. APKWS guidance kits [accurately strike air and ground targets](#), giving operators the ability to use them in a wide range of missions. The highly versatile kit can be fired by various platforms, including rotary- and fixed-wing aircraft, as well as unmanned aerial vehicles, static and mounted ground platforms, and maritime vessels.

The APKWS guidance kit is compatible with new and existing inventories of rocket motors, warheads, and fuzes. It requires minimal training to use in the field and has a simple, affordable maintenance concept, making it an efficient way to transform an unguided rocket into the precision munition of choice.

BAE Systems has been in full-rate production with its APKWS guidance kit for more than 12 years, allowing the U.S. armed forces and its allies to engage a variety of targets at a fraction of the cost of traditional munitions. BAE Systems leverages a robust supply chain and proven manufacturing capacity to deliver the guidance kit with speed and reliability.

APKWS laser-guidance kits are produced at BAE Systems’ state-

of-the-art manufacturing facilities in Hudson, New Hampshire and Austin, Texas.

For more information about APKWS guidance kits, visit: www.baesystems.com/apkws.

HII Deepens Partnership with Babcock International Group for Submarine Construction



[Release From HII](#)

ARLINGTON, Va., Dec. 09, 2025 (GLOBE NEWSWIRE) – HII (NYSE: HII) and Babcock International Group (Babcock) announced today they have signed a contract that expands their strategic partnership to further support *Virginia*-class submarine construction throughput at HII's Newport News Shipbuilding

(NNS) division. Additionally, the contract will build resiliency within HII's submarine supply base.

This is the first *Virginia*-class outsourced contract to Babcock in support of NNS-specific submarine work, authorizing Babcock to build complex submarine assemblies at the Rosyth facility in Scotland for *Virginia*-class Block VI fast-attack submarines.

The expansion of the partnership with Babcock will increase the number of suppliers that can perform large structure work with requisite quality.

"This is a significant next step in delivering on our joint commitment to enhance both organizations' capabilities, for the benefit of U.S. and U.K. programs," said Chris Kastner, HII president and CEO. "Leveraging Babcock's reach and expertise in the U.K. will reinforce our supplier base, strengthen submarine production in the U.S., and support the trilateral AUKUS partnership."

David Lockwood, CEO Babcock International Group said, "Babcock's advanced manufacturing expertise has enabled us to build on our established missile tube assembly capability, to deliver additional components for the U.S. submarine fleet. This expansion of our strategic partnership with HII enables us to optimize our joint capabilities for the benefit of the wider AUKUS security partnership."

[In July 2023](#), HII and Babcock entered into a strategic agreement to collaborate on naval and civil nuclear decommissioning and construction opportunities in the U.K. and U.S.

Since then, the companies have successfully worked across the United States, United Kingdom and Australia, including the [Australian Submarine Supplier Qualification \(AUSSQ\) program](#) to accelerate the identification and qualification of Australian suppliers and products into the U.S. submarine

industrial base. The program is working toward expanding to include products entering the U.K. submarine industrial base for the *Astute*-class.

At Defence and Security Equipment International (DSEI) earlier this year, Babcock and HII [signed a memorandum of understanding](#) to bring together HII's REMUS unmanned underwater vehicles (UUVs) and Babcock's world-leading submarine Weapon Handling and Launch Systems (WHLS). The collaboration aims to deliver UUV torpedo tube launch and recovery (TTLR), strengthening the undersea advantage of the U.K. Royal Navy and allied navies.

BAE Systems Selected to Modernize USS Forrest Sherman



[Release From BAE Systems](#)

BAE Systems has received a \$123 million contract from the U.S. Navy to modernize the Arleigh Burke-class guided-missile destroyer USS Forrest Sherman (DDG 98).

The total value of the competitively awarded contract could reach \$139 million if all options are exercised.

BAE Systems' Norfolk shipyard will begin work aboard the 9,200-ton ship in February 2026 under the Navy Depot Modernization Period (DMP) contract. In addition to underwater hull preservation work, the team will also recondition the ship's engineering spaces, upgrade its command-and-control equipment, and refurbish the crew's living spaces. The DMP work is expected to be completed in early 2027.

"The modernization of USS Forrest Sherman will be a major project for our team, building upon our recent DMP work," said David M. Thomas, Jr., vice president and general manager of BAE Systems Maritime Solutions Norfolk. "More importantly, our work will ensure that the Forrest Sherman is fit to provide a high level of service in the fleet for many years."

The shipyard completed similar work aboard the guided-missile destroyer USS Nitze (DDG 94) in June 2024, and other types of repair work are currently being performed aboard five Navy and commercially operated vessels.

USS Forrest Sherman is the 48th ship of the Arleigh Burke class and was commissioned in January 2006. The ship is named in honor of former Chief of Naval Operations Admiral Forrest P. Sherman. A previous U.S. Navy destroyer, USS Forrest Sherman (DD 931), also bore the admiral's name and was the lead ship in a class of 18 destroyers built in the 1950s.

BAE Systems recently renamed its U.S. maritime business to Maritime Solutions, reflecting the broadened mission of its shipyards and continued investment in serving a wider range of

customers. Today, the company is a leading provider of maintenance and modernization services to the U.S. Navy's fleet of combatant ships; refit and hauling services for privately held leisure vessels and workboats; and fabrication services for U.S. submarine and ship builders. The company operates three full-service shipyards in California, Florida, and Virginia, and it employs a highly skilled, experienced workforce and a large team of suppliers and subcontractors.

HII Hosts Keel Laying of Virginia-Class Attack Submarine Barb (SSN 804)



From HII

NEWPORT NEWS, Va., Dec. 09, 2025 (GLOBE NEWSWIRE) – HII's (NYSE: HII) Newport News Shipbuilding (NNS) division hosted

the keel laying ceremony today for *Virginia*-class attack submarine Barb (SSN 804).

“Our reason to come together this morning represents not only the laying down of our next submarine keel, but a solemn commitment we are making to our country,” NNS President Kari Wilkinson said. “It marks the beginning of a construction journey, and while it is a journey measured in inches of weld, amount of pipe, and amount of cable pulled, it is fueled by the strength and determination of shipbuilders and our partners working together toward a common objective.”

SSN 804 will be the third U.S. Navy submarine to carry the name Barb. The first, SS 220, was commissioned in 1942. During World War II, the submarine conducted missions under the command of Eugene “Lucky” Fluckey, earning the submarine four Presidential Citations, a Navy Unit Commendation and eight battle stars for outstanding service. The second, SSN 596, was a nuclear-powered submarine commissioned in 1963. It was sponsored by Marjorie Fluckey, the wife of Rear Adm. Fluckey. The submarine took part in special operations during the Vietnam War.

Pamela Bove serves as ship’s sponsor for the newest *Barb*. Bove began her analytical career working as a civilian within the submarine division at the Navy Operational Intelligence Center. She later accepted a position with a defense company where she met her husband Thomas “Tom” Bove, grandson of Rear Adm. Fluckey.

“It is an honor to serve as sponsor for Barb and see the legacy of this historic submarine carried forward to a new generation,” Bove said. “I am humbled knowing that the third Barb and her crew will soon serve silently in the depths of the world’s oceans and seas protecting this great nation of ours. I am grateful for the shipbuilders who are working diligently to construct this mighty vessel and all the sailors who will selflessly serve aboard her for decades to come.”

During Tuesday's ceremony, NNS welder Andrew Kahler etched Bove's initials onto a metal plate, signifying the keel of SSN 804 as being "truly and fairly laid." The metal plate will remain affixed to the submarine throughout its life.

Barb is the 31st Virginia-class fast attack submarine and will be the 15th delivered by NNS.

The advanced capabilities of Virginia-class submarines increase firepower, maneuverability and stealth.

**U.S. Navy UAS surpass one
million hours in ISR
operations**



A Textron MQ-19 Aerosonde Unmanned Aircraft system is launched from the expeditionary sea base USS Hershel "Woody" Williams. (U.S. Navy photo)

From Naval Air Systems Command, Dec. 9, 2025

NAS PATUXENT RIVER, Md. – The Navy and Marine Corps Small Tactical Unmanned Aircraft Systems (UAS) program office (PMA-263) recently announced that the Intelligence, Surveillance, and Reconnaissance (ISR) Services UAS surpassed one million flight hours in support of operations on land and at sea.

Sailors aboard achieved the one million flight hours milestone during routine mission support in the 6th Fleet.

Since the program's inception in 2005, PMA-263 has successfully completed more than 50 UAS installations aboard Navy and Military Sealift Command (MSC) ships and operated

from more than 50 land-based locations worldwide. The ISR Services team ensures ships in the 4th, 5th, 6th and 7th fleets, as well as land-based operations worldwide are equipped to provide day and night ISR support to joint force and coalition partners.

“Every hour flown represents more than mission success – it reflects the resilience of our people, the trust of our partners and the impact we’ve had on history,” said Gregg Skinner, PMA-263 program manager. “Together, we’ve supported operations in every corner of the globe, advanced unmanned systems into the fight, and stood ready in times of uncertainty”

Currently, more than a dozen ships are equipped with ISR Services UAS, enabling naval vessels to deploy and retrieve aircraft in support of missions. Sea- and land-based systems include the Boeing Insitu MQ-27 ScanEagle and the Textron MQ-19 Aerosonde, both delivering unique capabilities to the warfighter. They provide day and night surveillance, supporting around the clock mission support.

The UAS installations are optimized to facilitate the seamless transfer of full-motion video and other sensor data to personnel in critical locations. The information gathered by these systems plays a vital role in tactical operational decision-making and long-term intelligence gathering, enhancing the Navy and Marine Corps’ ability to maintain maritime domain awareness and operational readiness.

PMA-263 manages a portfolio of small unmanned systems for U.S. and international partners and leads training operations for all service branches.

Navy Demonstrates Multi-Day Solar UAS Flight



The Navy, in partnership with Skydweller Aero, recently achieved continuous solar-powered unmanned flight during a nonstop three-day test from Stennis, Mississippi. Led by the Naval Air Warfare Center Aircraft Division (NAWCAD), the test of Skydweller UAS marks a significant advancement in both long-endurance solar-powered UAS technology and its potential to enhance maritime intelligence, surveillance, and reconnaissance (ISR). (U.S. Navy)

From Naval Air Warfare Center Aircraft Division, Dec. 5. 2025

PATUXENT RIVER, Md. – The Navy, in partnership with Skydweller Aero, recently achieved continuous solar-powered unmanned flight during a nonstop three-day test from Stennis, Mississippi.

Led by the Naval Air Warfare Center Aircraft Division (NAWCAD), the test of Skydweller UAS marks a significant advancement in both long-endurance solar-powered unmanned air systems (UAS) technology and its potential to enhance maritime intelligence, surveillance and reconnaissance (ISR).

“This demonstration is a prime example of how NAWCAD partners with industry to deliver what the fleet needs,” said NAWCAD Commander Rear Adm. Todd Evans. “It also reflects the technical depth of our workforce and our ability to translate ideas into capability.”

The 73-hour flight proved Skydweller’s ability to maintain continuous solar-powered operation and demonstrated the feasibility of achieving a positive energy balance to power the aircraft during extended flights. It also validated the system’s communication links, autonomous real-time decision making and ability to adapt to turbulent weather.

“Integrating Skydweller into the Navy’s ISR architecture creates a layered and resilient network that maximizes the capabilities of all our assets,” says NAWCAD’s Special Purpose UAS lead Bill Macchione. “This collaborative approach ensures we have the right platform for the right mission, optimizing our resources and enhancing our overall maritime domain awareness.”

Skydweller’s strength lies in its ability to provide continuous, wide-area surveillance over extended periods, enabling more advanced systems to focus on missions that require such specialized capabilities as rapid response and advanced sensor packages.

NAWCAD began experimentation with Skydweller’s solar-powered UAS capabilities in 2020 to address U.S. Southern Command (SOUTHCOM) operational challenges, including drug trafficking and border security. This technology provides continuous

surveillance over vast areas, enabling the U.S. and its allies to enhance maritime security and disrupt illicit activities.

One Size Doesn't Fit All: Building U.S. Navy Hedges Against Rising threats



Sailors secure the rigid-hull inflatable boat on the midship of the Arleigh Burke-class guided-missile destroyer USS Curtis Wilbur (DDG 54) during small boat operations in the South China Sea, Sept. 4, 2025. *Photo credit: U.S. Navy | Mass Communication Specialist Seaman Mark Bergado*

The U.S. Navy faces challenges on multiple fronts. At sea, the fleet is stretched thin responding to China's continued gray-zone aggression and defending shipping in the Middle East from

drone or missile attacks. At home, new ship deliveries fall further behind, fleet readiness is slipping, and recruiters are playing catch up after years of missing goals.

More money and industry innovation could help the Navy mitigate its challenges. But they don't tackle the root cause of a shrinking, less-ready fleet – the Navy's force design, which emphasizes large, multi-mission crewed warships and aircraft over robotic and autonomous systems (RAS) or less-complex vessels.

The Navy's preference for large, crewed platforms is logical. Smaller ships lack the endurance for transoceanic deployments, RAS can't perform peacetime missions like search and rescue or counter-piracy, and the cost of long-endurance crewed ships or aircraft suggests each one should be multi-mission.

But the Navy cannot afford a fleet of highly survivable warships large enough to address the its global responsibilities. Rising costs and delays in maintaining aging guided missile destroyers (DDGs), amphibious ships, and nuclear-powered attack submarines (SSNs) are already shrinking the operational fleet by forcing the Navy to retire ships early or sideline them for years.

Rather than continuing to field a shrinking force of exquisite ships and aircraft, the Navy should field a larger force of crewed and uncrewed platforms that gain an edge over opponents through their payloads and ability to combine in a diverse array of changing effects chains across domains. By shifting complexity from inside individual ships and aircraft to the kill chains between them, this fleet could gain decision-making advantages over adversaries and generate capacity or capability when and where it is needed.

Deterring without Dominance

After three decades of being the largest, most capable fleet on Earth, the U.S. Navy faces adversaries who are exploiting

technology proliferation to field forces that can threaten U.S. military dominance. China is the most prominent example. With the world's largest rocket force and navy, the People's Liberation Army could keep Taiwan's allies at bay long enough to blockade Taiwan or attempt an invasion.

There are a small number of intense scenarios that would require a substantial portion of the fleet, or of key elements of the fleet. The U.S. Navy has traditionally designed the fleet to meet the demands of these scenarios. In its post-Cold War period of dominance, the Navy could build a force able to counter a Taiwan invasion and retain enough residual capability to handle any other situation, albeit much less efficiently than a purpose-built force.

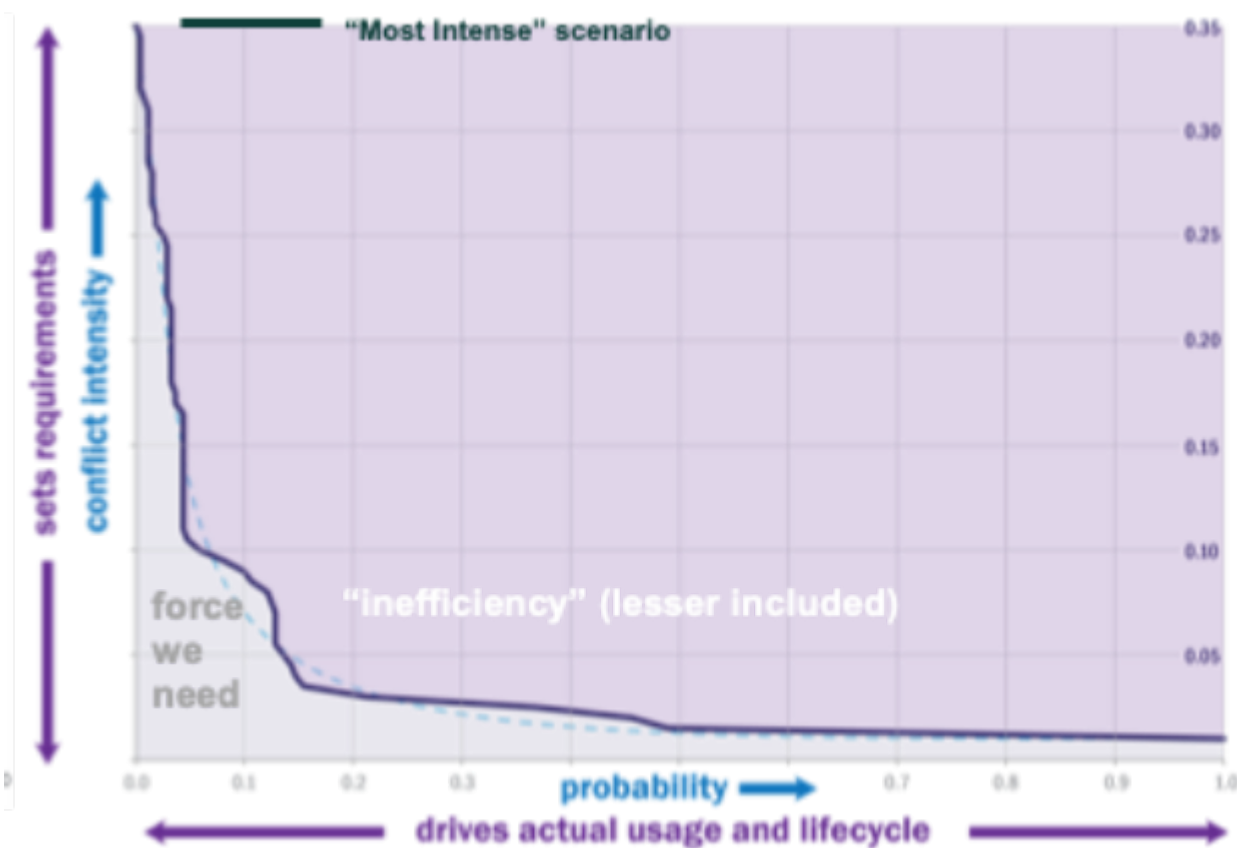


Figure 1

Figure 1 illustrates this approach. It shows U.S. combat deployments from 1943 to 2011 in terms of the probability a given portion of the force is deployed on any given day. (This chart is based primarily on U.S. Air Force data, which is the most comprehensive). The peak on the chart represents World

War II, but the speed and scale of a Taiwan invasion would preclude significant mobilization. Navy leaders logically sized the active fleet for that scenario.

But the PRC's improving and growing military is driving up the capability and capacity needed to defend Taiwan. In the early 2020s, the Navy began to retire or slow production of ships and aircraft that were less relevant to a Taiwan invasion scenario. The one-size-fits all fleet started looking like a one-trick pony fit for one situation and ill-suited for many others.

Other stressing scenarios soon emerged as adversaries began exploiting military-relevant commercial technology and geography. Russia expanded its invasion of Ukraine beyond Crimea and is growing its submarine fleet, Iran's Houthi proxies attacked shipping across the Red Sea and Bab El Mandeb, and China intensified air and maritime incursions into Philippine and Japanese territory.

This expanding set of challenges leaves the Navy in a strategic cul-de-sac: It doesn't have enough forces with sufficient capability to be dominant in each region, but it cannot grow in its current form under any realistic budgets. In his opening speech during his assumption of office, new Chief of Naval Operations Admiral Daryl Caudle argued the Navy should use "hedge forces" to solve this force planning challenge.

Hedge forces are specialized groups of units designed to address high-consequence, low-probability situations like those on the left side of figure 1. These forces would provide the additional capability and capacity needed for a specific scenario but may not have broad utility in other regions or situations. Figure 2 depicts this force design paradigm using the data of Figure 1.

The Navy's need for hedge forces to be specialized and forward based suggests they should be predominantly composed of RAS. Conflicts in Ukraine, Nagorno-Karabakh and the Middle East show that RAS can be relevant in high-end conflict. For example, after losing its navy to attack or capture, Ukraine's military restored access to vital shipping lanes by pushing the Russian Black Sea Fleet to the far side of Crimea using uncrewed attack boats and undersea vehicles.

RAS also offer dramatically lower costs of procurement and, most importantly, sustainment. By shifting some functions of traditional crewed platforms onto uncrewed systems, the Navy could gain scale at lower costs than it would take to achieve the same capacity through crewed ships or aircraft.

The Navy is pursuing RAS and associated operational concepts through an accelerating set of experiments. These initiatives – including Task Force 59 in the Middle East, 4th Fleet in Central and South America and the Integrated Battle Problems in the Indo-Pacific – are great examples of applying new technologies to thorny operational problems. But the Navy needs to go further and stop treating uncrewed systems as merely an additive to the crewed force.

The U.S. Department of Defense is experimenting with concepts like those used by Ukraine and Iran's proxies to create a "hellscape" for Chinese invaders in the Taiwan Strait. By attacking troop transports with drone boats, undersea vehicles and loitering munitions, a hedge force of RAS could slow or disrupt the invasion, giving U.S. and allied forces targeting information and time to destroy PLA ships with long-range missiles and torpedo fires.

But the hellscape cannot stop an invasion alone. It will need missile attacks from aircraft, submarines and surface combatants to defeat the invasion fleet and its escorts. However, surface forces will be hard-pressed to get close enough to deliver weapons and survive. The Navy could fill the

gap by instead relying on a distributed fires hedge force of Modular Attack Surface Craft and submarines in the early phases of the fight.

The MASC program includes three RAS vessels, the largest of which would carry 16 missiles. Hudson Institute's wargaming and modeling suggests distributed uncrewed missile launchers with between 16 and 32 weapons offer an effective balance between undermining adversary planning and creating risks to adversary objectives. RAS vessels with larger magazines are easier to detect, have difficulty efficiently using their weapons before coming under attack and are large enough to be worth multiple enemy missile salvos. RAS vessels with fewer weapons are often unable to successfully attack a defended target alone, creating a need for coordinated attacks that can be difficult if communications are degraded.

The Navy could benefit from building RAS-based hedge forces to address other stressing situations. For example, deployments by quiet Russian SSNs through the Greenland-Iceland-United Kingdom (G-I-UK) gap could quickly overwhelm U.S. antisubmarine warfare (ASW) forces, especially if other operations in Europe demand attention from U.S. SSNs, P-8A maritime patrol aircraft and DDGs. And a renewed campaign of drone attacks by the Houthis in the Red Sea could once again stretch a Navy surface combatant fleet that is also defending U.S. carriers, territory and other sea lanes.

A Dramatically Different Surface Fleet

This new force design paradigm implies changes in the makeup of the core force. For example, if a largely uncrewed hedge force can slow and disrupt a Chinese invasion, the Navy may need a lower rate of fires from surface combatants, strike-fighters, and SSNs. As a result, the Navy could reduce the number of crewed platforms it buys or delay their next generation.

But the changing threat environment also matters. The fleet's successful air defense actions in the Middle East during the last two years showed that countering drone and missile attacks is getting harder. These operations already stress the capacity of today's DDGs. Hudson Institute's wargaming with U.S., Australian and Japanese officers during the last year suggest China could overwhelm U.S. DDGs and successfully engage U.S. carriers well into a conflict in the Western Pacific.

DDGs will soon have to focus on air and missile defense and forgo other missions like ASW or strike due to combat system and magazine limits. Despite their reach, Tomahawk missiles still require DDGs to approach adversaries like Iran, Russia and China within anti-ship missile range and each adversary would be willing to expend substantial numbers of \$20 million ballistic missiles on a \$3 billion DDG.

This suggests the surface force will need to both increase its magazine capacity and the range of its weapons to conduct offense and defense during tomorrow's conflicts. The Navy could realize those characteristics by renewing its pursuit of a CG(X) guided missile cruiser. A CG(X) could, like today's Ticonderoga CGs, carry 130-plus missiles in a vertical launch system magazine. Like the Navy's planned DDG(X), a CG(X) could also carry larger missiles like the Navy's planned hypersonic conventional prompt strike weapon that can reach targets more than 1,500 nautical miles away.

But with a cost of likely more than \$5 billion per ship, the Navy will not be able to replace today's DDG-51s with new CG(X) or DDG(X) hulls on a one-for-one basis. While today's DDG-51s will be in the fleet for decades to come, the Navy will need to complement its new, larger surface combatants with smaller, less expensive vessels.

Unfortunately, the Constellation guided missile frigate cannot become that more affordable counterpart to the DDG-51.

Originally planned to cost less than \$800 million per hull, the FFG-62 class has been plagued by production delays and cost overruns driven in large part by Navy design revisions. The Congressional Budget Office now estimates each FFG will cost at least \$1.4 billion.

With a cost nearly twice that of its parent FREMM FFG design or the Navy's original estimates, the FFG-62 no longer has a role in the Navy fleet. Its 32-cell vertical launch system magazine lacks the capacity to defend another ship against even the Houthi threat. The FFG-62's very low frequency sonar will generate long detection ranges against quiet submarines but still would place the ship well within submarine-launched anti-ship missile range. And the FFG-62's cost and complexity prevent the Navy from automating the ship or buying it in sufficient numbers to be considered expendable or attritable.

Surface force leaders could use the Navy's budget constraints to reshape the fleet for deterrence in a post-dominance era. Instead of continuing the flawed and overpriced FFG-62 program, the Navy could pursue a smaller missile corvette like the Israeli Sa'ar-6 or Swedish Visby. A corvette would not be multimission capable like the FFG-62, but it could carry the same 32-cell VLS magazine for offensive weapons. With a reloadable Rolling Airframe Missile air defense system, it would be survivable against realistic missile salvos.

If the Navy used an existing design without significant modifications, it could purchase at least two corvettes for the cost of each planned FFG-62. This is not a novel approach. The Navy is beginning procurement this year of a new medium landing ship based on the Israeli logistics support vessel, which itself was derived from a U.S. Army landing ship.

Corvettes could conduct coastal defense around the United States and across the Western Hemisphere. But they could also lead and manage hedge forces overseas that are defending Taiwan, countering submarines at the G-I-UK gap, clearing

mines in the Strait of Hormuz or defeating air attacks in the red Sea. Although hedge forces will be predominantly composed of RAS, human operators will still need to maintain, command and protect them when not in use. Corvettes could help provide those functions while also providing maritime security and addressing other threats.

With their lower complexity and smaller size, the Navy could also automate corvettes enough for them to be remote missile launchers during wartime, as it did with the fast troop transport USNS Apalachicola. They could then join the distributed fires hedge force in defeating amphibious assaults or blockades.

The Navy's fleet design needs dramatic change to deter in a post-dominance era. Instead of relying on the broad overmatch of its one-size-fits-all fleet, the Navy should pivot to a smaller core fleet complemented by hedge forces to address its most challenging operational problems. Without a change like this, the Navy will lose relevance as opponents exploit proliferation and geography to threaten America's allies and interests. .

Bryan Clark is a Senior Fellow at the Hudson Institute. This story originally appeared in the December issue of Seapower magazine.

Navy Selects Damen to Build New Medium Landing Ship



By Richard R. Burgess, Senior Editor

ARLINGTON, Va. – The U.S. Navy has selected Damen to build the new medium landing ship (LSM) for the service. The ship will be a version of Damen’s LST 100 class.

Damen is a shipbuilder headquartered in The Netherlands. Its LST 100 class is in production for Australia and other customers.

The selection was announced on Dec. 5 on X in a video of Navy Secretary John C. Phelan, who said that the move was the second initiative in support of re-designing the U.S. fleet. The first was the truncation of the Constellation-class guided-missile frigate program to only the two ships currently under construction. The truncation, announced a week earlier,

was the result of delays in the program. Phelan announced that a new class of frigates will be designed to give the Navy the small surface combatants that it needs.

The Navy plans to build 35 LSMs to transport Marines and their equipment within theaters of war with an “organic, littoral mobility capability in the Indo-Pacific and around the world and provides with a critical intra-theater maneuver asset that is able to embark, transport, and land Marines, weapons supplies and equipment around the theater without requiring access to a pier,” said General Eric Smith, commandant of the Marine Corps, in the same X video. “The medium landing ships will enable our Marines to be more agile and flexible in austere where there are no ports ... within the adversary’s engagement zone.”

The LST 100 resembles in concept the LSTs of World War II, equipped with bow doors and a ramp to discharge vehicles onto a beach. Damen’s design is an intra-theater transport that displaces approximately 4,000 tons. According to Damen’s website, the ship is 100 meters long and has a beam of 16 meters and a draft of 3.5 to 3.9 meters. The ship is designed with berthing for a landing force, cargo space of 1,020 square meters of roll-on/roll-off cargo space and to be operated by a crew of 18. The ship features a large crane and a helicopter landing pad. Phelan said the LSM would have a range of more than 3,400 nautical miles.

The selection of an “off-the-shelf” design came as the Navy determined that other proposals with new designs were too costly and would take too long to join the fleet. In the same video, Admiral Daryl Caudle, chief of naval operations, stressed producibility and maintainability after an era of shipbuilding in which the delivery of new ships took too long.

Navy Establishes First Information Warfare Squadron



Capt. Jon O'Connor, prospective Commanding Officer, Information Warfare Squadron (IWRON) Two, renders a salute as he arrives with the official party during an assumption of command ceremony for IWRON Two in Norfolk, Virginia. (U.S. Navy photo by Robert Fluegel)

From Naval Information Forces, Dec. 5, 2025

NORFOLK, Va. – Information Warfare Squadron (IWRON) Two, a first-of-its-kind unit designed to operationalize Information Warfare (IW) capabilities and provide decisive decision advantage to Carrier Strike Group Commanders, was established, Dec. 5.

This command is being stood up as part of a 48-month pilot program that received unanimous approval at the Fleet Commanders' Readiness Council (FCRC) in June of 2025. The FCRC is a forum where top Navy leaders develop integrated solutions to Fleet-wide issues necessary to support warfighting, mission effectiveness, and sustain readiness wholeness. This pilot program will be a period of learning, adaptation, and innovation, with a focus on improving readiness, refining doctrine, evaluating the effectiveness of integrated IW capabilities and increasing lethality across the Carrier Strike Group.

"This isn't just another ceremony, this is a paradigm shift in how we fight and win in the 21st century," said Vice Adm. Mike Vernazza, commander, Naval Information Forces. "For too long, Information Warfare has been a collection of vital but often disparate capabilities. Today, we change that. Today, we forge a unified force, a sharpened spear, ready to deliver the necessary decisive decision advantage to our Carrier Strike Group Commanders in any environment."

The establishment of IWRON Two addresses the increasing complexity and sophistication of global threats, which actively seek to exploit vulnerabilities from seabed to space. The IWRON construct, modeled after the successes of Air Wings and Destroyer Squadrons, streamlines the chain of command, aligns warfare commander authorities, and consolidates responsibilities under a single accountable commander, thereby enhancing speed, agility, and decisive action.

"The IWRON construct represents a bold step forward," said Vernazza. "We are integrating and employing advanced IW capabilities and delivering them as a unified force across the spectrum of conflict. We are employing IW warfighting effects in a way that has never been demonstrated before. To get to outcomes we haven't had, we need to do things we haven't

done...this is one of them.”

IWRON TWO brings together talent from across the IW community, including the Carrier Strike Group staff, the Strike Group Oceanography Team, the Fleet Intelligence Detachment DC, the Navy Cyber Defense Operations Command, the Navy Information Operations Command, and the Naval Information Warfare Training Group.

CAPT Jon O’Connor assumed command of IWRON Two.

“IWRON-2 will not only meet, but exceed the standards of excellence because we must. Our mission demands it. We are here to strengthen the readiness, lethality, and survivability of our Carrier Strike Groups by integrating our advanced IW capabilities,” said O’Connor. “This is about warfighting, pure and simple.

The Sailors who comprise the initial cadre of IWRON Two were recognized for their pivotal part of this new command.

“Your willingness to embrace this challenge, to be pioneers in this new frontier of warfare, is a testament to your dedication and your commitment to our Navy. You are the lifeblood and decisive warfighting advantage of our Navy. Your work here will pave the way for future generations of Information Warfare professionals for years to come.” said Vernazza.

IWRON Two will serve as the pilot squadron on the East Coast, with another squadron being established on the West Coast in 2026.

The establishment of Information Warfare Squadron Two marks a crucial step forward in ensuring the U.S. Navy remains the premier warfighting force – ready, capable, and unmatched.

NAVIFOR's mission is to generate, directly and through our leadership of the IW Enterprise, agile and technically superior manned, trained, equipped, and certified combat-ready IW forces to ensure our Navy will decisively DETER, COMPETE, and WIN.

For more information on NAVIFOR, visit the command Facebook page at <https://www.facebook.com/NavalInformationForces/> or the public web page at <https://www.navifor.usff.navy.mil>.

BAE Systems secures \$36 million contract to equip U.S. Navy submarines with Multifunction Modular Masts



Radio frequency antennas provide U.S. Navy submarines with

enhanced situational awareness to carry out missions

MERRIMACK, N.H. – December 8, 2025 – BAE Systems has been awarded a \$36 million production contract from Lockheed Martin to deliver Multifunction Modular Mast (MMM) systems for integration onto U.S. Navy submarines.

The MMM system is a radio frequency receiving antenna that provides U.S. Navy submarines the ability to detect, identify, and direction-find adversary communications signals before rising to the surface. The antennas will mount on new Virginia-class submarines and feed into Lockheed Martin's AN/BLQ-10 electronic warfare (EW) system.

“In dynamic and contested environments, stealth is key, and submarines rely on accurate communications signal information to make decisions quickly,” said Michael Rottman, program area director for Maritime Sensors and Systems at BAE Systems. “The Multifunction Modular Mast system equips U.S. Navy submarines with critical capabilities to locate and identify potential threats, enabling them to analyze and respond accordingly.”

As network-centric naval warfare evolves, advanced sensors, data links, communications, and EW systems are needed to outpace threats. The MMM system plays a critical role in electromagnetic spectrum dominance and strategic situational awareness. It provides operators with a reliable secondary source to detect nearby adversaries, in addition to radar and sonar.

The tactical communications receiving antenna resides in a composite radome. Its pressure-rated and corrosion-resistant design allows the unit to survive the harsh undersea environment and maximize signal-gathering performance while minimizing visibility of the mast and platform. The system also includes a payload module that enables the U.S. Navy to incorporate additional sensors for other mission applications.

For more than 65 years, BAE Systems has developed and manufactured a range of maritime and [communications solutions](#), including antennas, acoustic transducers, and sensors. Designed to withstand the depths of the ocean, these systems enable communication and remote sensing across the U.S submarine fleet.

Work on the MMM system is performed at BAE Systems' New Hampshire facilities in Hudson, Merrimack, and Nashua.