

# Navy moves forward with hypersonic, carrier-based weapon



[Release from Naval Air Systems Command](#)

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Mar 28, 2023

NAVAL AIR SYSTEMS COMMAND, Patuxent River, Md. –

The Navy awarded two contracts to Raytheon Missiles and Defense and Lockheed Martin March 27 for the initial development for a carrier suitable long range, high-speed missile designated Hypersonic Air Launched Offensive Anti-Surface (HALO).

The contracts, valued at a total of \$116 million, is the first step to fielding a critical capability over the next decade that will address advanced threats and allow the Navy to operate in and control contested battle space in littoral waters and anti-access/area denial (A2/AD) environments.

The initial contracts to Raytheon and Lockheed Martin will provide technical maturation and development through preliminary design review of the propulsion system required for a carrier suitable hypersonic weapon system. The contract period of performance for each award will end in December 2024 with each company's preliminary design review working towards a prototype flight test.

HALO will be a carrier-based, high speed, long range air-launched weapon that will provide greater anti-surface warfare capability than what's available today.

"As threat capability continues to advance, additional range, warfare capability and capacity is required to address the more demanding threat environment," said Capt. Richard Gensley, Precision Strike Weapons (PMA-201) program manager.

The program is part of the Navy's Long Range Fires investment approach to meet objectives of the National Defense Strategy where hypersonic weapons are a top priority, he said.

"Our team is leveraging science and technology and rapid prototyping arenas to support aggressive schedule execution," said Gensley.

These contracts are the first of potentially additional development and production contracts based on initial designs and supplier performance that will inform Navy leadership on future program decisions.

HALO's predecessor, the Long-Range Anti-Ship Missile (LRASM), is currently fielded on the Navy's F/A-18 and Air Force B-1B. To bridge the gap until HALO is operational, the Navy recently funded an upgrade to the existing weapon which will incorporate missile hardware and software improvements to enhance targeting capabilities.

The Navy plans to pursue a competitive acquisition strategy leveraging LRASM requirements and concept of operations to meet future maritime threats beyond mid-2020s. Initial operational capability for HALO is planned to field late this decade.

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## **U.S. Navy Launches USNS Cody**

[Release from Naval Sea Systems Command](#)

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By Team Ships Public Affairs

MOBILE, Ala. – The U.S. Navy's newest Expeditionary Fast Transport (EPF) vessel, USNS Cody (EPF 14), launched at Austal USA's shipyard, Mar. 20.

Capable of transporting 600 tons of personnel and cargo up to 1,200 nautical miles at an average speed of 35 knots, each EPF vessel includes a flight deck to support day and night aircraft launch and recovery operations. The ships are also capable of interfacing with roll-on/roll-off discharge

facilities, and can load and off-load heavy vehicles such as a fully combat-loaded Abrams Main Battle Tank.

“Today’s launch marks another successful milestone for the EPF 14, and it demonstrates the strength of the Navy-Austal USA partnership,” said Strategic and Theater Sealift Program Manager, Program Executive Office, Ships, Tim Roberts. “EPFs provide capability and capacity for a variety of missions, when and where our fleet needs support.”

Launching an EPF is a multi-step process, conducted over two full days. The ship is moved from the Modular Manufacturing Facility where it was constructed to a docking barge, and then transported to a floating dry dock. Submerging the dry dock into the water then launches the ship to float on its own.

EPFs operate in shallow waterways. These versatile, non-combatant transport ships are used to quickly transport troops, military vehicles, and equipment needed to support:

- Overseas contingency operations
  - Humanitarian assistance
  - Disaster relief
  - Special operations forces efforts
  - Theater security cooperation activities
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- Emerging joint sea-basing concepts

As one of the Defense Department’s largest acquisition organizations, Program Executive Office, Ships is responsible for executing the development and procurement of all destroyers, amphibious ships, special mission and support ships, and special warfare craft.

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# Saildrone Scales Production of New Mid-size USV



[Release from Saildrone](#)

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To meet the growing demand for advanced data-collection capabilities at sea, Saildrone has developed the 33-foot Voyager designed for near-shore ocean mapping and maritime security missions.

(March 28, 2023 – ALAMEDA, CA) – Saildrone, the world leader in providing near real-time maritime intelligence using small uncrewed systems, announced today a new, mid-size class of

uncrewed surface vehicles (USVs). The 33-foot (10 m) Voyager is specifically designed for near-shore ocean and lakebed mapping, and to meet the challenges of IUU (illegal, unreported, and unregulated fishing), ISR (intelligence, surveillance, reconnaissance), law enforcement and maritime safety, drug interdiction, and border and harbor security.

Saildrone's three USV models—the Voyager along with the 23-foot (7 m) Explorer and 65-foot (20 m) Surveyor—have been developed to balance mission payload flexibility and endurance. The Voyager's larger size, compared to the Explorer, allows for a more persistent datalink, increased power available for ocean mapping and ISR payloads, and versatile payload integration options.

The ocean mapping sensor suite includes multibeam sonar equipment capable of seafloor mapping of depths to 900 feet (300 m), and the ISR sensor suite includes a smart camera array, digital radar, and sub-surface passive acoustics. Primarily powered by wind and solar, the Voyager also features an electric propulsion alternative, useful for low-wind and near-shore operations.

“With our Voyager platform, Saildrone helps to eliminate maritime gaps above and below the ocean surface, reducing risk to mission and risk to force. We want to be a force-multiplier for our partners and allies when it comes to ISR capabilities,” said Richard Jenkins, Saildrone founder and CEO.

To date, Saildrone has built 100 23-foot Explorer-class USVs at its headquarters in Alameda, CA. To meet the increasing demand for the new Voyager platform, Saildrone has elected to outsource the production of the wing, hull, and keel to composite specialists: [Janicki Industries](#) will manufacture the wing and keel in Washington, and [Seemann Composites](#) will manufacture the hull in Mississippi. Saildrone will continue to produce, install, and service internal components in

Alameda.

“One of the truly exceptional aspects of working at a company like Saildrone is the fact that hardware and software engineering, manufacturing, mission operations, and G&A are all housed under one roof—in a former airplane hangar on a site known for aviation and naval innovation,” said Saildrone COO Mark Cuyler. “But with the rapidly increasing demand for ocean data collection across the fleet, it is necessary to outsource some of our production. Saildrone is proud to work with great US-based companies like Janicki and Seemann, whose expertise in the marine composites industry will help us to more rapidly meet the demanding challenges of the world’s oceans.”

Saildrone has been conducting sea trials of the Voyager in the San Francisco Bay and offshore of California since late 2022, and the first operational maritime security and ocean mapping missions will begin this spring. The company is currently producing new Voyagers at a rate of one per week.

The data collection capabilities of Saildrone’s autonomous vehicles have been proven in numerous operational missions, covering almost 1 million nautical miles from the Arctic to the Antarctic. The company looks forward to its continued and close partnership with the US Government and its allies in boosting maritime security around the globe.

Visit Saildrone at 2023 IPF, March 28-30, at the Baltimore Convention Center and at the Navy League’s Sea Air Space 2023 at the Gaylord National Convention Center in National Harbor, MD.

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# Fairbanks Morse Defense Launches Accelerator Program to Support Emerging



[Release from Fairbanks Morse](#)

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*Defense contractor dedicating mentors and additional resources to foster promising mission-critical technologies*

BELOIT, Wis. – March 28, 2023 – [Fairbanks Morse Defense](#) (FMD), a portfolio company of Arcline Investment Management (Arcline), has launched the FM Defense Accelerator program to identify and nurture emerging technologies with mission-critical applications for the future of maritime defense. The defense contractor is now accepting applications for participants.

“As a principal supplier of best-in-class maritime defense technology, we are well positioned to recognize and foster pioneering solutions that have the potential to solve challenges faced by the industry,” said FMD CEO George Whittier. “The FM Defense Accelerator is open to eligible entrepreneurs with a great idea, a plan for bringing it to fruition, and an appetite to work with us and benefit from our expertise and relationship with the Navy, Coast Guard, and Military Sealift Command (MSC).”

Once selected, participants will work with FMD mentors selected from the defense contractor’s Technology Center of Excellence specifically for their expertise. In addition to the dedicated mentors assigned to FM Defense Accelerator participants, program benefits include the following:

- Individual programs created specifically for each technology ranging from three months to several years
- Access to broader FMD resources, including technical experts and a worldwide service network

- Brand exposure opportunities and marketing support
- Route to market advice and support

Once a technology reaches a predetermined development milestone, it has the opportunity to be demonstrated at various industry events, giving FM Defense Accelerator participants exposure to representatives from the Navy, Coast Guard, MSC, and other key stakeholders.

FMD has recently been working with technology collaborators through the Technology Center of Excellence, and a selection of these companies will be transitioned into the FM Defense Accelerator program.

The FM Defense Accelerator will be featured at the FMD booth (837) at the [Sea-Air-Space](#) Exposition from April 3<sup>rd</sup> to 5<sup>th</sup>, 2023, at National Harbor, MD, along with live demonstrations of naval defense technologies being developed by FMD and its technology collaborators.

Companies interested in applying for a place on the program can visit the landing page at <https://rb.gy/f4qogd> to complete the online application.

### **About Fairbanks Morse Defense (FMD)**

Fairbanks Morse Defense (FMD) builds, maintains, and services the most trusted naval power and propulsion systems on the

planet. For more than 100 years, FMD has been a principal supplier of a growing array of leading marine technologies, OEM parts, and turnkey services to the Navy, Coast Guard, Military Sealift Command, and Canadian Coast Guard. FMD stands ready to rapidly support the systems that power military fleets without compromising safety or quality. In times of peace and war, the experienced engineers, sailors, and technicians of FMD demonstrate our commitment to supporting the mission and vision of critical global naval operations wherever and whenever needed. FMD is a portfolio company of Arcline Investment Management.

To learn more, visit [www.FairbanksMorseDefense.com](http://www.FairbanksMorseDefense.com)

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**USMC      Rotational      Arctic  
Presence   Bolsters   US   and  
Allied Training**



U.S. Marines with Combat Logistics Battalion 2, Combat Logistics Regiment 2, 2nd Marine Logistics Group, set up camouflage netting to conceal vehicles during Exercise Joint Viking near Bardufoss, Norway, March 9, 2023. Marines are deployed to Norway as part of Marine Rotational Forces Europe 23.1 which focuses on regional engagements throughout Europe by conducting various exercises, arctic cold-weather and mountain warfare training, and military-to-military engagements, which enhance overall interoperability of the U.S. Marine Corps with allies and partners. (U.S. Marine Corps photo by Sgt. Christian M. Garcia)

By Dr. Lee Willett

LONDON – The U.S. Marine Corps (USMC) has been increasing its permanent presence in the Arctic in recent years, using rotational deployments. The impact of this rotational presence is being demonstrated again in the multinational exercise ‘Joint Viking,’ which is taking place in March ashore and at sea in and around Norway’s northern fjords.

For ‘Joint Viking’ and the parallel U.K.-led ‘Joint Warrior’ exercise, 20,000 allied aircrew, sailors, soldiers, marines,

and supporting personnel are present, including USMC forces. Participating USMC forces are drawn from a pool of more than 1300 marines, from Combat Logistics Battalion 6, 2nd Marine Logistics Group, II Marine Expeditionary Force, that are supporting rotational activities and exercises as the Marine Rotational Force – Europe 2023 (MRF-E 23) deployment.

As ‘Joint Viking’ and other exercises are joint and combined activities, USMC forces are training alongside U.S. Air Force, Army, and Navy personnel, as well as NATO allies and other partners, Lieutenant Colonel Nathan Knowles USMC, Battalion Commander 2nd Combat Engineer Battalion, told [Seapower](#).

“The rotational training has been beneficial for both US Marines and service members from allied and partner countries,” said Knowles. “The Marines are receiving world-class training, which improves overall Marine Corps readiness, and sends Marines back to their units better trained to fight and win in any environment.”

While noting that exercises like ‘Joint Viking’ are long-planned activities that are not conducted in response to any specific threat from any specific adversary, such exercises still enable US, allied, and partner forces to “continue to enhance readiness, capability, and flexibility in response to changing security environments”, said Knowles. In particular, he added, “We are focused on strengthening the development of joint leaders and teams who understand the synergy of air, sea, and land power in a joint, multi-domain environment.”

The MRF-E 23 rotation and associated exercise series will conclude in September, and the USMC units deployed on this rotation will return to base at Camp Lejeune, North Carolina.

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# Navy, Coast Guard Begin Oceania Maritime Security Initiative Patrol



USS Mobile (LCS 26) heads towards Naval Surface Warfare Center, Port Hueneme Division in California for a ship groom on the afternoon of Nov. 28. LCS 26, an Independence-class littoral combat ship, was commissioned in 2021 and is homeported in San Diego. (U.S. Navy photo by Eric Parsons/Released)

[Release from Commander, U.S. Third Fleet Public Affairs](#)

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24 March 2023

SAN DIEGO - The U.S. Navy and U.S. Coast Guard began their joint patrol in the Western Pacific under the Oceania Maritime Security Initiative (OMSI) to reduce and eliminate illegal, unregulated, unreported fishing, combat transnational crimes, and enhance regional security, March 20.

“OMSI is imperative to ensure that the Western and Central Pacific Fisheries Commission Convention (WCPFC) agreement is upheld within the Indo-Pacific region,” said Cmdr. Richard Skinnell, Mobile’s commanding officer. “This initiative allows us the opportunity to work jointly with other branches of the military as well as our allies and partners.”

OMSI, a Secretary of Defense program, improves maritime security and domain awareness by enabling Coast Guard law enforcement personnel to conduct maritime law enforcement operations from Navy ships. These joint and combined operations ensure the U.S. military honors its security commitments to allies, partners, and friends.

“Collaborating with our partners throughout Oceania is essential in ensuring a free and open Blue Pacific,” said Cmdr. Jeff Bryant, chief of enforcement, U.S. Coast Guard District Fourteen. It is a privilege and we are proud to support the Federated States of Micronesia through dedicated partnership in the effort to maintain maritime governance and preserve maritime sovereignty.”

The WCPFC international fisheries agreement prioritizes the long-term conservation and sustainable use of highly migratory fish stocks in the Western and Central Pacific Ocean.

“The U.S. Coast Guard is always ready and looking forward to executing the OMSI mission alongside our U.S. Navy partners,” said Bryant.

Independence-variant littoral combat ship USS Mobile (LCS 26), with an embarked Coast Guard law enforcement detachment from the Pacific Tactical Law Enforcement Team, supports maritime law with partner nations by enforcing the WCPFC agreement and by suppressing illicit activities. Independence-variant LCS is

the platform of choice for this mission due to its fast and agile maneuvering capabilities, large flight deck with manned and unmanned aviation assets and surface warfare mission set.

An integral part of U.S. Pacific Fleet, U.S. 3rd Fleet operates naval forces in the Indo-Pacific and provides the realistic, relevant training necessary to flawlessly execute our Navy's role across the full spectrum of military operations—from combat operations to humanitarian assistance and disaster relief. U.S. 3rd Fleet works together with our allies and partners to advance freedom of navigation, the rule of law, and other principles that underpin security for the Indo-Pacific region.

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## **7th Fleet Destroyer conducts Freedom of Navigation Operation in South China Sea**



[Release from U.S. 7th Fleet Public Affairs](#)

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NEWS | March 23, 2023

7th Fleet Destroyer conducts Freedom of Navigation Operation in South China Sea

By U.S. 7th Fleet Public Affairs

PARACEL ISLANDS, South China Sea –

On March 24 (local time) Arleigh Burke-class guided-missile destroyer USS Milius (DDG 69) asserted navigational rights and freedoms in the South China Sea near the Paracel Islands, consistent with international law. At the conclusion of the operation, Milius exited the excessive claim and continued operations in the South China Sea. This freedom of navigation operation (“FONOP”) upheld the rights, freedoms, and lawful uses of the sea recognized in international law by challenging the restrictions on innocent passage imposed by the People’s

Republic of China (PRC), Taiwan, and Vietnam and also by challenging PRC's claim to straight baselines enclosing the Paracel Islands.

Unlawful and sweeping maritime claims in the South China Sea pose a serious threat to the freedom of the seas, including the freedoms of navigation and overflight, free trade and unimpeded commerce, and freedom of economic opportunity for South China Sea littoral nations.

The United States challenges excessive maritime claims around the world regardless of the identity of the claimant. The customary international law of the sea as reflected in the 1982 Law of the Sea Convention provides for certain rights and freedoms and other lawful uses of the sea to all nations. The international community has an enduring role in preserving the freedom of the seas, which is critical to global security, stability, and prosperity.

The United States upholds freedom of navigation for all nations as a principle. As long as some countries continue to claim and assert limits on rights that exceed their authority under international law, the United States will continue to defend the rights and freedoms of the sea guaranteed to all. No member of the international community should be intimidated or coerced into giving up their rights and freedoms.

The PRC, Taiwan, and Vietnam each claim sovereignty over the Paracel Islands. In violation of customary international law, all three claimants require either permission or advance notification before a military vessel or warship engages in "innocent passage" through the territorial sea. Under customary international law as reflected in the Law of the Sea Convention, the ships of all States –including their warships –enjoy the right of innocent passage through the territorial sea. The unilateral imposition of any authorization or advance-notification requirement for innocent passage is unlawful. By engaging in innocent passage without giving prior

notification to or asking permission from any of the claimants, the United States challenged these unlawful restrictions imposed by the PRC, Taiwan, and Vietnam. The United States demonstrated that innocent passage is not be subject to such restrictions.

The United States also challenged the PRC's 1996 declaration of straight baselines encompassing the Paracel Islands. Regardless of which claimant has sovereignty over these islands, it is unlawful to draw straight baselines around the Paracel Islands in their entirety. Customary international law as reflected in the Law of the Sea Convention is both clear and comprehensive regarding the circumstances under which States can depart from "normal" baselines. The PRC-claimed straight baseline violates international law of the sea as reflected in Article 7 of the Law of the Sea Convention. Furthermore, international law does not permit continental States, like the PRC, to establish baselines around entire dispersed island groups. With these baselines, the PRC has attempted to claim more internal waters, territorial sea, exclusive economic zone, and continental shelf than it is entitled to under international law. By conducting this operation, the United States demonstrated that these waters are beyond what the PRC can lawfully claim as its territorial sea, and that the PRC claimed straight baselines around the Paracel Islands are inconsistent with international law.

U.S. forces operate in the South China Sea on a daily basis, as they have for more than a century. They routinely operate in close coordination with like-minded Allies and partners that share our commitment to uphold a free and open international order that promotes security and prosperity. All of our operations are conducted safely, professionally, and in accordance with customary international law. The operations demonstrate that the United States will fly, sail, and operate wherever international law allows –regardless of the location of excessive maritime claims and regardless of current events.

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# Navy demonstrates new crash crane in operational setting



The Navy's Common Aviation Support Equipment program office (PMA-260) successfully completed the Crash and Salvage Crane (CSC) Maintainability Demonstration (MDEMO) at the Fleet Readiness Center Norfolk February 3. Pictured is the new Carrier CSC when it was in Patuxent River for testing. (U.S. Navy Photo)

[Release from Naval Air Systems Command](#)

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NAVAL AIR SYSTEMS COMMAND, PATUXENT RIVER, Md.—

The Navy's Common Aviation Support Equipment program office (PMA-260) successfully completed the Crash and Salvage Crane (CSC) Maintainability Demonstration (MDEMO) at the Fleet Readiness Center (FRC) Norfolk, Virginia Feb. 3.

The MDEMO is an important milestone in the acquisition process, ensuring that the new crane is sustainable, maintainable, and ready for reliable operation in the Fleet. The demonstration verified the Mean Time to Repair (MTTR) for Intermediate Level maintenance is within the required and specified limits.

"The new CSC design will ensure the warfighter has the safest, most modern, maintainable and reliable equipment possible for years to come, and we are looking forward to bringing this improved capability to the Fleet" said Capt. Robert Burgess, PMA-260 program manager.

CSCs are critical pieces of equipment because no flight operations are allowed on ships without an operational CSC running on standby. They are used for lifting and moving disabled aircraft on aircraft carriers and landing helicopter dock ship flight decks. These new versions, designed by industry partner Allied Systems Company, replaces the legacy carrier and amphibious assault crash cranes.

The legacy CSCs were designed decades ago and have been a workhorse in the Fleet for many years, having exceeded their anticipated life expectancy. They have become increasingly difficult to maintain due to obsolescence issues. The new variants correct those deficiencies and are much easier to maintain.

During the MDEMO, Fleet sailors from two aircraft carriers removed and replaced 30 components while performing

unscheduled maintenance tasks following the technical manual instructions. The event's success supports progression into production of the cranes for delivery to the Fleet.

"NAWCAD Lakehurst engineering timed the tasks and determined the MTTR requirement was met, and FRC personnel supported the assembly and proof load testing of the crane," said Cmdr. Tommie Crawford, PMA-260 common ground support equipment team lead. "The team's dedication, maintenance intellect and shared experience were instrumental to the success of the event.

The new CSCs are on track to deliver to the Fleet February 2024.

#### About PMA-260

The Navy's Common Aviation Support Equipment program office (PMA-260) manages the procurement, development and fielding of common aviation support equipment required for the operation and maintenance of aircraft, aircraft weapons, related aircraft weapons subsystems, and miscellaneous ground support equipment. Additionally, PMA-260 manages the Metrology and Calibration program, the Foreign Object Damage mitigation effort, and the Mobile Facilities (MF) Programs. MFs are used to support Navy Expeditionary and Marine Aviation Logistics Squadron intermediate-level maintenance.

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## **U.S. Coast Guard works with counterparts in Saipan to**

# sharpen maritime operations skills



[Release from U.S. Coast Guard Forces Micronesia](#)

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SANTA RITA, Guam – The U.S. Coast Guard conducted a subject matter exchange with boating safety and customs counterparts in Saipan in the Commonwealth of the Northern Mariana Islands on March 21, 2023, to enhance maritime operations management.

Personnel from U.S. Coast Guard Forces Micronesia/Sector Guam and USCGC Sequoia (WLB 215) with small boat station experience worked with the CNMI Department of Public Safety – Boating Safety and the CNMI Customs and Biosecurity – Marine Unit.

The exchange was based on the standards used by U.S. Coast Guard small boat stations nationwide and focused on

administrative topics, such as completing unit organization manuals, standing orders, detailed duties, assignments, and watch schedules.

“The engagements were at no cost to our search and rescue and law enforcement partners,” said Lt. Cmdr. Christine Igisomar, U.S. Coast Guard FM/SG maritime advisor. “Future engagement topics will include navigation, training, personal protective equipment, and naval engineering. This engagement series will culminate in a search and rescue exercise in the CNMI, currently slated for August.”

The U.S. Coast Guard’s last Saipan-based search and rescue exercise took place in August 2022 with 40 CNMI participants from six CNMI agencies and eight Coast Guard members.

“The excellent participation, support, and free exchange of experience and ideas made for a successful endeavor,” according to Lt. Henry Dunphy, the chief of emergency management and force readiness at U.S. Coast Guard FM/SG.

That exercise simulated a response to a capsized kayak off Tanapag Harbor, leading to tabletop discussions on planning, safety, and communications, followed by search patterns and boat handling offshore the following day.

Forces Micronesia/Sector Guam, personnel hold training and search and rescue exercises in Guam, the CNMI, and the Compact of Free Association states. They evaluate notification and response procedures and identify shortfalls in communication and coordination of response during SAR incidents. Each agency holds individual capabilities that complement each other’s efforts and bolsters the overall success of the SAR system.

U.S. Coast Guard Forces Micronesia/Sector Guam comprises nearly 300 personnel and provides a significant portion of the U.S. Coast Guard’s enduring regional presence in Oceania. These teams conduct the service’s six major operational mission programs: maritime law enforcement, maritime response,

maritime prevention, marine transportation system management, maritime security operations, and defense operations.

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## Raytheon Technologies awarded \$320 million for StormBreaker smart weapon



[Release from Raytheon Technologies](#)

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TUCSON, Ariz., (March 23, 2023) – The U.S. Air Force awarded Raytheon Technologies a \$320 million contract to produce and deliver 1500 StormBreaker® smart weapons, which are air-to-surface, network enabled weapons that can engage moving targets in all weather conditions using its multi-effects warhead and tri-mode seeker.

“Having StormBreaker in the warfighter’s arsenal provides unprecedented capability against moving targets, regardless of conditions,” said Paul Ferraro, president of Air Power at Raytheon Missiles & Defense. “It also expands our production line and reinforces our commitment of ensuring the warfighter has the next-level munitions they need to safely and successfully accomplish the mission.”

StormBreaker is fielded on the F-15E Strike Eagle with testing underway on the F-35B and F/A-18; between the three platforms, StormBreaker has had hundreds of successful operational test shots to date.

[Click here](#) learn more about the StormBreaker smart weapon.