

IMSAR's NSP-5 Radar Moving Into Production for RQ-21 Unmanned System

SPRINGVILLE, Utah – IMSAR's NSP-5 radar system, configured for unmanned aircraft systems, is in production to deliver mission kits to the RQ-21A Blackjack UAS operated by the U.S. Marine Corps, the company said in a release.

The payload project, named "Split Aces," is a synthetic aperture/ground moving target Indicator Radar Payload and has been given the prototype designation AN/DPY-2().

The NSP-5 is powered by Ku-band NanoSAR synthetic aperture radar (SAR) technology, which is housed in a pod with enclosed electronically scanned array antennas. The NSP-5 provides high-resolution SAR imagery, coherent change detection and ground moving target indication.

"IMSAR is excited to provide America's defense with a genuinely tactical, high-performance radar solution enabling true multi-intelligence for expeditionary platforms at such a critical time," said Ryan Smith, IMSAR's president and CEO.

The NSP-5 delivers high-performance capabilities despite its small size, weight and power characteristics. Commercially, the NSP-5 is available in a standard pod configuration that measures 5.4 inches (13.7 centimeters) in diameter and 45.3 inches (115 centimeters) in length, weighs 16 pounds (7.3 kilograms) and consumes 150 watts of power.

Army Gen. Milley Formally Nominated to Be Next Chairman of the Joint Chiefs

ARLINGTON, Virginia – President Trump has formally nominated two generals to serve as the next chairman and vice chairman of the Joint Chiefs of Staff.

In an April 9 announcement, Acting Defense Secretary Patrick M. Shanahan said that Army Gen. Mark A. Milley had been nominated for “appointment to the rank of general and assignment as chairman of the Joint Chiefs of Staff.”

Shanahan also said that Air Force Gen. John E. Hyten had been nominated for appointment to the rank of general and assignment as Joint Chiefs vice chairman.

Milley serves as the Army chief of staff. Hyten is commander of U.S. Strategic Command. If confirmed by the Senate, they would replace Marine Corps Gen. Joseph F. Dunford Jr. and Air Force Gen. Paul J. Selva as chairman and vice chairman, respectively.

Shanahan announced two other nominations:

Trump has nominated Marine Corps Lt. Gen. Eric M. Smith for appointment to the rank of lieutenant general and assignment as deputy commandant for Combat Development and Integration, Headquarters, U.S. Marine Corps, and commanding general, Marine Corps Combat Development Command. Smith serves as the commanding general, III Marine Expeditionary Force, and commander of U.S. Marine Corps Forces Japan, Okinawa. He would succeed Lt. Gen. David H. Berger, whose nomination to be the next commandant of the Marine Corps was announced March 27.

Air Force Maj. Gen. Eric T. Fick was nominated for appointment

to the rank of lieutenant general and assignment as director, Joint Strike Fighter Program, Office of the Secretary of Defense. Fick serves as deputy director of the office. He would succeed Navy Vice Adm. Mathias W. Winter.

Civilian, Uniformed Navy Leaders Again Face Questions About Truman's Retirement, Ford Carriers, Diversion of Funds for Border Wall

Senate Armed Services Committee members expressed concerns about the Navy's planned early retirement of the aircraft carrier Harry S. Truman and the impact of use of military funds and troops to secure the southwest border and questioned the operational status of the new Gerald R. Ford carrier.

During an April 9 hearing with the Navy Department's top civilian and uniformed leaders, the senators also questioned the delay in building two new amphibious warships and suggested moving that procurement ahead by authorizing incremental funding for the first of the Amphibious Transport Dock (LPD) Flight IIs and the next America-class Amphibious Assault (LHA) ship.

In his opening statement, Navy Secretary Richard V. Spencer announced that the three U.S. service members killed by a suicide car bombing April 8 in Afghanistan were Marines. He provided no details.

SASC Chairman Sen. James M. Inhofe (R-Oklahoma) said there was no other Navy weapon system that matches “the reach and lethality of the carrier and its air wing” and said he was “highly skeptical” of Pentagon claims that early retirement of the Truman will result in savings.

That view was echoed by other committee members.

Questioned about the Truman decision, Chief of Naval Operations Adm. John M. Richardson estimated savings of \$16 billion to \$17 billion if officials follow through on plans to skip the normal midlife nuclear refueling and overhaul of the carrier and retire it with 25 years of expected service life remaining.

Richardson said the Navy is completing a new future fleet study and could reverse the Truman decision if needed.

Inhofe responded: “You may need to do that.”

The Navy has heard similar views from other influential members of Congress.

Inhofe and others also questioned progress on the Ford, the first ship in a new class of nuclear-powered carriers, which is in the shipyard three years after it was expected to be operational and billions of dollars over budget.

Spencer said all 11 of the advanced weapons elevators would be installed and the other mechanical and structural problems with the Ford would be resolved when the carrier is expected to leave the shipyard in October.

Questioned later by Sen. Tom Cotton (R-Arkansas), Spencer insisted that “the Ford will work” and noted that it will be able to produce 30% more aircraft sorties a day than the Nimitz-class carriers and do it with fewer Sailors.

“We have a much more capable, much more lethal asset,” which was “the primary factor” in moving to the new carriers,

Spencer said.

Asked if Congress provided additional money to cover refueling Truman, Spencer said he "would not turn it down."

Questioned later by Sen. Roger Wicker (R-Mississippi) on whether the Navy could purchase the LPD Flight II and the LHA-9 a year earlier than the planned 2021 and 2024 starts if Congress authorized incremental funding, Spencer said they could.

Incremental funding normally is used for the most expensive ships, including carriers.

Asked about the response to growing Russian activities in the Arctic, Richardson said the Navy is conducting more exercises there, including a planned Marine amphibious landing in September to seize an airfield on the Aleutian island of Adak to allow Navy aircraft, including P-8A patrol planes, to operate.

Several senators expressed concern about the impact of the Trump administration's plans to divert military construction funds to building the wall at the U.S.-Mexico border and the expense of sending active-duty troops there.

Spencer said he has not been given a list of Navy construction projects that would be affected by the diversion of \$3.6 billion in MilCon funds but would provide his best advice on any such proposal.

Questioned about his leaked memos to Spencer about the threat to Marine readiness from several programs, Marine Corps Commandant Gen. Robert B. Neller said the border deployment was only one of the eight factors he cited and represented only 2% of the funding shortfalls. He said he knew of no exercise that was canceled because Marines were sent to the border, although the size of one was reduced, and only one unit may have suffered reduced readiness from the border

deployment, while other units gained readiness from duties there.

Coast Guard Commandant: Some Cases of 'Sanctuary' Localities Inhibiting Cooperation

WASHINGTON – The Coast Guard's top officer told Congress that there have been some cases of "sanctuary" localities failing to cooperate on a law-enforcement case, but that such events are "anomalous."

Coast Guard Commandant Adm. Karl L. Schultz testified April 9 before a joint hearing on Capitol Hill of the Transportation and Maritime Security subcommittee of the House Committee on Homeland Security.

"I have been told that some of the sanctuary state and city programs are actually inhibiting cooperation between local governments and the Coast Guard," Rep. Debbie Lesko (R-Arizona), the ranking member, said, addressing Schultz. "Have you heard any of that and can you explain it?"

"The Coast Guard absolutely exists on partnerships," Schultz replied. "We're the lead law-enforcement agency in the maritime domain and we work with state and local folks."

"There have been some examples in Southern California," Schulz said. "I would say they're anomalous, not day to day. Day to day, we continue to work well, but I've talked to field

commanders in recent visits who tell me we don't have 100% predictability that a local sheriff or a local police marine unit is going to launch on a case to the degree that we had yesteryear. But we're working across those things It's not something that I think is a big inhibitor to our mission, but I have heard some of those stories."

Certifiable Ground Control Station Controls First End-to-End Flight



SAN DIEGO – The Certifiable Ground Control Station (CGCS) from General Atomics Aeronautical Systems Inc. (GA-ASI) was used to control the complete flight of an MQ-9B SkyGuardian – including takeoff and landing – on March 12, the company said in a release. This is the first time the CGCS has been used to control an entire end-to-end flight of a remotely piloted aircraft (RPA).

“Controlling takeoff and landing was the last step in a progression of flight milestones for the CGCS,” said David R. Alexander, president of GA-ASI. “Our vision is that MQ-9B will be the first RPA certified to fly in national and international airspace. To achieve that goal, our GCS needs to be type-certified as well. Completing an end-to end flight was an important step in achieving that ultimate goal.”

The flight originated from the Yuma Proving Grounds in Yuma, Arizona. The CGCS features a Pro Line Fusion integrated avionics system from Collins Aerospace, the Abaco FORCE2 flight computer, as well as all the weapons and payload

controls for MQ-9B.

The CGCS architecture provides separation between flight and mission critical functions. Flight critical functions are performed using off-the-shelf avionics and flight computers running GA-ASI's certifiable DAL B software. The mission critical functions are separated and run alongside GA-ASI's proven Advanced Cockpit payload and weapons equipment.

Coast Guard Interdicts 8 Cuban Migrants on Cay Sal

CAY SAL, Bahamas – The Coast Guard interdicted eight migrants on April 7 on Cay Sal attempting to illegally enter the United States, the Coast Guard 7th District said in a release.

Coast Guard 7th District watchstanders received a notification from a Coast Guard Air Station Miami HC-144 Ocean Sentry aircraft crew reporting two people hiding in nearby bushes. The Coast Guard Cutter Charles Sexton (WPC-1108) crew arrived on scene and deployed a boarding team ashore to investigate the situation. The Charles Sexton boarding team was able to locate the eight Cuban nationals and embarked them with no medical concerns.

The eight Cubans were transferred to Bahamian immigration officials in Freeport, Bahamas, by the Coast Guard Cutter Robert Yered (WPC-1104) crew and will be transferred back to their home.

“Illegal migration voyages are extremely dangerous when transporting human lives on these unseaworthy vessels and put the safety of those aboard in jeopardy,” said Petty Officer

2nd Class Jeffrey Swope, Command Center Watchstander, Sector Key West. “The Coast Guard remains consistent with the mission of protecting the safety of life at sea and interdicting these vessels in an effort to prevent the loss of life.”

Coast Guard Cutters Robert Yered and Charles Sexton are 154-foot fast-response cutters homeported in Florida.

Coast Guard Interdicts 11 Cuban Migrants 24 miles East of Cay Sal



CAY SAL, Bahamas – The Coast Guard interdicted 11 migrants on April 5 who were 24 miles east of Cay Sal and attempting to illegally enter the United States, the Coast Guard 7th District said in a release.

Coast Guard Sector Key West watchstanders received a notification from the Cuban border security reporting an illegal vessel departure with an unknown number of passengers aboard.

The Coast Guard Cutter Isaac Mayo (WPC-1112) crew arrived on scene after a Coast Guard Air Station Miami HC-144 Ocean Sentry aircraft crew sighted the vessel. The 11 adult Cuban males aboard were embarked with no medical concerns.

They were transferred to Bahamian authorities by the Coast Guard Cutter Robert Yered (WPC-1104) crew and will be transferred back to their home.

“Illegal migration voyages are extremely dangerous when

transporting human lives on these unseaworthy vessels and put the safety of those aboard in jeopardy,” said Petty Officer 2nd Class Sharon Vela, Command Center Watchstander, Sector Miami. “The Coast Guard remains consistent with the mission of protecting the safety of life at sea and interdicting these vessels in an effort to prevent the loss of life.”

Coast Guard Cutters Robert Yered and Isaac Mayo are 154-foot fast-response cutters homeported in Florida.

Coast Guard Offloads More than 7.1 Tons of Cocaine in San Diego



SAN DIEGO – The crew of the Coast Guard Cutter Waesche offloaded in San Diego on April 5 more than 14,300 pounds of cocaine seized in international waters of the eastern Pacific Ocean from February to late March, the Coast Guard 11th District said in a release.

“The offload that you see behind me, the bales of cocaine, represents a successful example of the cycle of justice,” said Rear Adm. Nathan Moore, deputy commander of Coast Guard Pacific Area. “This cycle of justice disrupts a cycle of crime which, left unchecked, fuels violence and instability that erodes our hemisphere’s social and economic fabric and directly contributes to historically high numbers of drug-related deaths in North America.”

The drugs were seized during six separate interdictions off the coasts of Mexico and Central and South America by the

Coast Guard Cutters Active (WMEC-618), Steadfast (WMEC-623) and Waesche (WMSL-751):

- Active was responsible for two cases, seizing about 1,297 kilograms of cocaine.
- Steadfast was responsible for two cases, seizing an estimated 2,350 kilograms.
- Waesche was responsible for two cases, seizing about 2,874 kilograms.

“The national security cutter is the Coast Guard’s most sophisticated and technologically advanced asset,” said Capt. Patrick Dougan, Waesche’s commanding officer. “However, it would be ineffective without the men and women who serve aboard. Everyone on board plays an important role and manning these ships requires everyone to contribute. This crew and those of our other assets are relentless in their pursuit of professional excellence. This offload is just a small sample of our success.”

Numerous U.S. agencies from the departments of Defense, Justice and Homeland Security cooperated in the effort to combat transnational organized crime. The Coast Guard, Navy, Customs and Border Protection, FBI, Drug Enforcement Administration and Immigration and Customs Enforcement along with allied and international partner agencies play a role in counter-drug operations.

The Coast Guard increased U.S. and allied presence in the eastern Pacific Ocean and Caribbean Basin, which are known drug transit zones off Central and South America, as part of its Western Hemisphere Strategy. During at-sea interdictions in international waters, a suspect vessel is initially detected and monitored by allied, military or law enforcement personnel coordinated by Joint Interagency Task Force-South based in Key West, Florida. The law-enforcement phase of counter-smuggling operations in the eastern Pacific is

conducted under the authority of the 11th Coast Guard District, headquartered in Alameda, California. The interdictions, including the actual boarding, are led and conducted by members of the U.S. Coast Guard.

The Waesche is a 418-foot national security cutter homeported in Alameda, California. The Active is a 210-foot medium-endurance cutter and is homeported in Port Angeles, Washington. The Steadfast is also a 210-foot medium-endurance cutter and is homeported in Astoria, Oregon.

Coast Guard Interdicts 10 Cuban Migrants 20 Miles South of Matecumbe Key



MATECUMBE KEY, Florida – The Coast Guard interdicted 10 migrants Monday 20 miles south of Matecumbe Key attempting to illegally enter the United States, the Coast Guard 7th District said in an April 5 release.

Coast Guard Sector Key West watch-standers received a notification from a good Samaritan boat reporting a suspicious vessel with 10 passengers aboard.

A Coast Guard Station Islamorada 45-foot response boat-medium crew arrived on scene after a Coast Guard Air Station Miami MH-65 Dolphin helicopter crew sighted the vessel with 10 adult Cuban males aboard and embarked them with no medical concerns.

The 10 Cuban nationals were transferred to Cuban authorities by the Coast Guard Cutter Isaac Mayo (WPC-1112) crew and will

be transferred back to their home of origin.

“Illegal maritime migration voyages are extremely dangerous, often on homemade, unseaworthy vessels, and put the safety of those aboard in great jeopardy,” said Lt. j.g. Karrie Jeffries, command duty officer of Sector Key West. “The Coast Guard remains poised to protect the safety of life at sea and interdict these vessels in an effort to prevent the loss of life while also enforcing the law.”

Isaac Mayo is a 154-foot fast-response cutter homeported in Key West, Florida.

C2, Air Defenses Against UAS Attack Among Corps' Top Acquisition Priorities, Berger Says

Some of the top acquisition priorities for the Marine Corps to prevail against the emerging security threats are maintaining the ability to command and control a naval expeditionary force in a degraded electronic environment and acquiring air defense capabilities against unmanned aerial systems, senior officials said April 4.

Meeting the requirement for assured command and control (C2) is complicated by the continuing dependence on legacy systems that are so far out of date they can't be upgraded, Lt. Gen. David H. Berger, the commanding general of the Marine Corps Combat Development Command, told the House Armed Service Tactical Air and Land Forces Subcommittee.

Although a lot of C2 systems will be fielded in the next few years, “the challenge for us, as a naval force, is how to do that in a degraded electro-magnetic spectrum environment. That’s not easy work,” Berger said.

There is the challenge of integrating the sensor and communications systems of fourth- and fifth-generation aircraft, he said, referring to the Marines’ mix of legacy F/A-18 Hornets and new F-35B joint strike fighters.

Then there is the basic requirement of processing and distributing that information so the Marines can get it. That’s hard enough to do if it wasn’t in a contested environment,” Berger said. “But we absolutely expect the threat to go after our C2 systems first ... because they believe that’s our Achilles’ heel.”

“For us, the Navy and Marine Corps, it’s No. 1,” because they cannot operate successfully “if we can’t have the network that we need,” he said. “A fair portion of [budget] requests this year addresses that.”

Jimmy Smith, deputy assistant secretary of the Navy for research, development, and acquisition, echoed that point, telling the panel that “competing with a peer threat is the theme of our 2020 request.” The budget prioritizes modernization, in C2, long-range precision fires, enhanced maneuver and logistics.

Asked how they would deal with legacy equipment, Berger said they have started writing the need for retrofitting into requirements. “It wasn’t so necessary before, but now it absolutely is,” he said, citing a commonly used radio system, the Humvee vehicles and the M1A1 main battle tank, which he noted has analog, not digital electronics.

“Some of the legacy systems, there’s a point that we reach, like the M1A1, that we can’t go any farther, and the LAV [light armored vehicle],” he added.

For the new Amphibious Combat Vehicle that will begin fielding this summer, modern technology is built into it, he said.

Berger noted that the 2020 budget includes "cancellation of some legacy systems in order to upgrade others."

To deal with the rapidly growing threat of armed unmanned aerial systems (UAS), Berger emphasized the new Ground/Air Tactical Oriented Radar, as "a huge advance for us in identifying and tracking targets. ... Plus, it's expeditionary."

He also cited the Light Marine Air Defense Integrated System, being fielded in "very limited quantities." It is "an integrated, modular package" that can be mounted on two small vehicles and includes sensors, controls and an electronic attack system to disable small UASs.

"For longer range, we'll need a medium range interceptor" missile, he added.

Lt. Gen. Steven Rudder, Marine Corps deputy commandant for aviation, also mentioned offensive UASs to counter enemy drones and some small guided munitions that can loiter and be guided into enemy UASs. Defensive drones could be particularly useful against swarms of aerial drones, Rudder said.

Asked about the need for long-range fires, Smith said the Marines "are closely tied in with the Army," which has a much larger force, and a larger budget and already is working on those things. "The Marine Corps benefits greatly from leveraging their work, working together."

In response to a question from subcommittee chairman David Norcross, Berger joined other witnesses in warning that a return to sequestration, which would cut defense spending far below the budget request, would force the Marines to sacrifice modernization to ensure that "the next units deploying, or one already deployed, have what they need."