

RUSSELL EGNOR NAVY MEDIA AWARD WINNING NEWS PAPER

FIVE STAR



APRIL 27, 2019 WWW.EISENHOWER.NAVY.MIL



SUPPLY KEEPS IKE MOVING

BY MC3 KALEB SARTEN



Culinary Specialist Seaman Apprentice Jacob Ringlen carries a pallet to transport perishable food. Photo by MCSN Conner Houghtaling.

From the apples neatly placed in wooden baskets on the outskirts of the galleys to the hot roast beef served at Sunday brunch, USS Dwight D. Eisenhower (CVN 69) is able to complete its mission, because supply department keeps the ship well-fed and ready to go to work.

Whether in port or out to sea, Supply department takes on the food necessary to ensure day-to-day operations can carry on without missing a beat.

Feeding an entire crew requires an immense level of planning, and it all starts with coordination with other departments, according to Lt. Cmdr. Joshua Shiver, the ship's principal assistant for services, or known simply as the PAS.

"First we have to consider the length of the underway," said Shiver. "Then we figure out what events are going to be taking place."

Things like whether or not squadrons, ship riders and distinguished visitors (DV) will be on board are all factors when determining the ship's needs during an underway.

"Of course, there's always the basics—we plan based on the Navy's standard 21-day menu—but then we also have to consider special events like DV dinners and Sunday brunch," said Shiver.

"If we order too much, then food goes bad and the taxpayer dollar is wasted," said Shiver. "If we order too little then we can't feed the crew. We have to be as close to exact as possible."

Once the food shows up at the pier, it becomes the responsibility of Ike's cargo team to move the food onto the ship and where it needs to be. This involves moving pallets from the pier to the hangar bay, where it is then stored in one of Ike's refrigerators and storerooms.

"It's not an easy job," said Chief Culinary Specialist David Cunningham, Ike's cargo chief. "We're talking about pallets that can weigh up to 2,000 pounds each."

Ike's cargo team consists of 15 Sailors—plus an additional 15 Sailors to operate the conveyors that bring the food from the hangar deck to the storerooms below—working long hours to take on a typical shipment.

"It's an all-day evolution," said Culinary Specialist 2nd Class Eugenio Lopatynsky, the assistant leading petty officer of cargo. "But the work doesn't stop there."

Once the food has been taken on, it still needs to be distributed to the galleys. "We take a look at what the menu is for that day, and we begin to pull out what we need," said Cunningham. "If all four galleys are open then it's a lot more work."

Though moving supplies for an entire ship is a long and complicated process, the ship couldn't function without it, and the sense of pride that comes with knowing that makes it all worth it, said Cunningham.

"I love being able to support the command and the mission," said Cunningham. "The ice cream socials, Sunday brunch—the crew gets excited about those things and when they get excited I get excited."

IKE CONDUCTS CIWS PAC FIRE

Combat Systems Department aboard the aircraft carrier USS Dwight D. Eisenhower (CVN 69) conducted a Pre-action Aim Calibration (PAC) fire on the Close-in Weapon System (CIWS) while underway, April 18.

The PAC fire is a live-fire exercise designed to calibrate the CIWS radar and the cannon to detect incoming threats.

"A PAC fire effects Ike's readiness by demonstrating the self-defense systems are ready and operational against airborne and surface threats when called upon in any theater," said Chief Warrant Officer 3 Denerio Kennedy, the CS-7 division officer. "Further, our system operators improve with every PAC fire and every opportunity to sit in the consoles. The training completeD during our pre-deployment phase will have Ike ready on game day."

The CIWS is a fast-reaction, detect-through-engage, radar-guided, 20-millimeter-gun weapon system that stands as Ike's last line of defense against anti-ship missiles (ASM), aircraft and small surface contacts.

"Every month we are underway, we have to complete this evolution," said Fire Controlman 1st Class Christopher Foster, a work group supervisor in Combat System's CS-7 division. "This is a crucial part in maintaining Ike's readiness."

The evolution marked another key event in getting Ike operational again.

"The completion of PAC fire means two things," said Kennedy. "First, we are ensuring that we are completing maintenance requirements to ensure a healthy system. Secondly, it gives us the necessary sets and repetitions to train our Sailors."

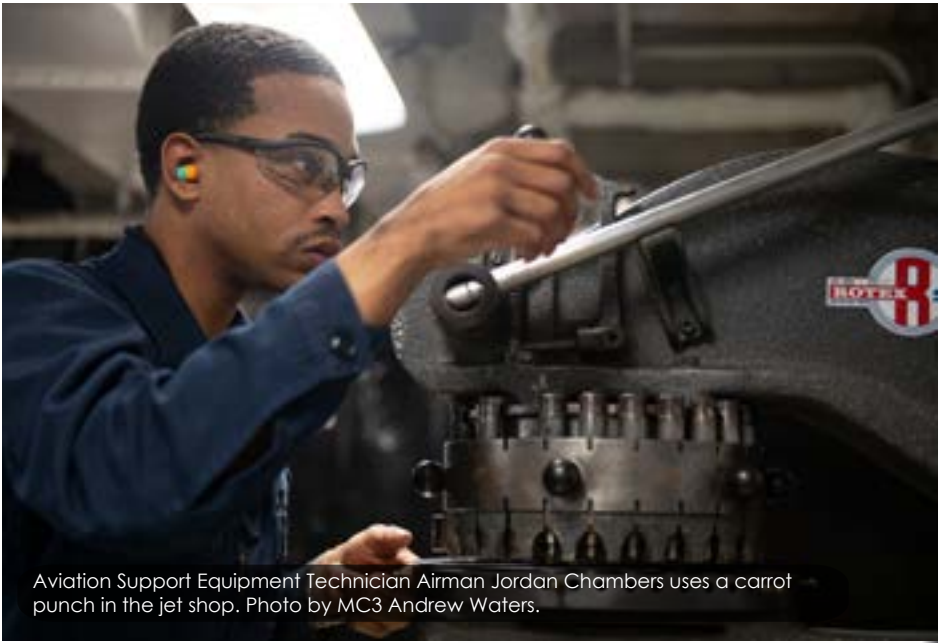
Including the CIWS, the CS-7 Division conducts several hours of maintenance each month to ensure Ike's defense systems, including the Rearchitected NATO Sea Sparrow Missile System and the RIM-116 Rolling Airframe Missile System, stay ready.

"These 36 Sailors have put in work to get Ike's Combat Systems training and self-defense systems to a level that you can trust to answer the bell when called upon to protect Ike," said Kennedy.

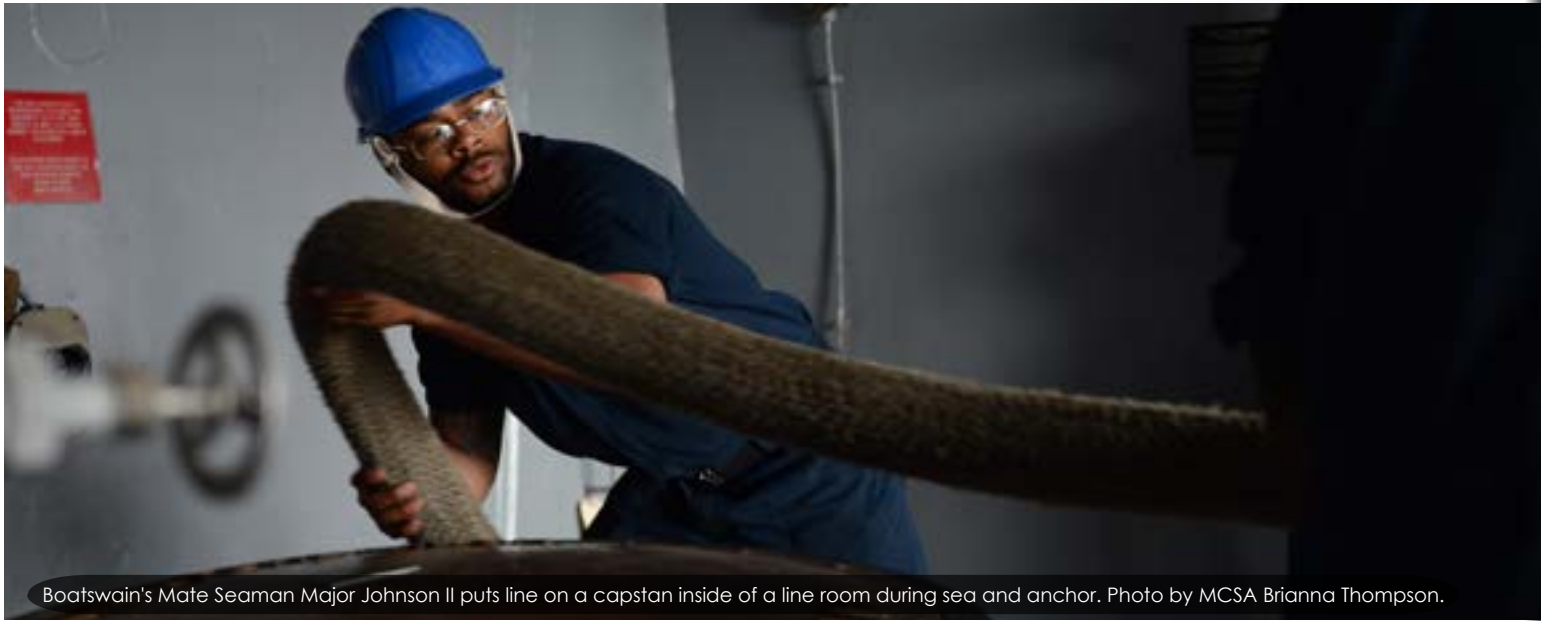




Sailors dewater the fantail. Photo by MCSA Trent P. Hawkins.



Aviation Support Equipment Technician Airman Jordan Chambers uses a carrot punch in the jet shop. Photo by MC3 Andrew Waters.



Boatswain's Mate Seaman Major Johnson II puts line on a capstan inside of a line room during sea and anchor. Photo by MCSA Brianna Thompson.



Sailors participate in a foreign object debris (FOD) walk down on the flight deck. Photo by MC3 Kaleb Sarten.



Aviation Structural Mechanic 3rd Class Cheyanne Baldwin puts safety wire in an aircraft brake in the hydraulic shop. Photo by MC3 Andrew Waters.



Boatswain's Mate Seaman Samuel Edwards operates a capstan inside of a line room during sea and anchor. Photo by MCSA Brianna Thompson.

LET YOUR VOICE BE HEARD; APRIL 30 IS LAST DAY TO PARTICIPATE PPV HOUSING SURVEY

FROM COMMANDER, NAVY INSTALLATIONS COMMAND PUBLIC AFFAIRS

Sailors or their family members living in Private Partner Venture (PPV) housing have through April 30 to complete a special survey that allows them to share their overall experience with their current living conditions.

The PPV survey is an opportunity for Sailors to note their likes and dislikes with privatized family housing and any health or safety concerns they may have with their homes, community or services provided by privatized housing management companies.

The survey, which was launched April 2, is being conducted by CEL & Associates, an independent third party. It takes about 10 minutes to complete. Those who participate will remain anonymous unless they choose to identify themselves.

This “out-of-cycle” PPV survey was directed by the Navy and is different than past annual surveys conducted on behalf of the companies. In the past, those companies would provide the Navy with a final report on the results of their surveys, but not all of the data. The Navy will be provided all the data from this survey.

Taking the the survey is important to Navy leaders because information provided may help in the effort to address deficiencies that have come to light recently in some privatized housing.

Family members of Sailors living in privatized housing are allowed to take the survey, but only one survey is allowed per household.

All privatized housing residents, both families and

unaccompanied Sailors, should have received their survey form via email by now from CEL & Associates. If they have not, they should contact CEL and provide their name and housing address so that CEL can ensure that they get the survey on time. The email address is: NavyPPVHousingSurvey@celassociates.com

Surveys are also underway for government leased or owned family or unaccompanied housing, but those residents have more time to complete those surveys.

A survey for Sailors living in government unaccompanied housing also began April 2 and runs through June 20. A survey for Sailors and families living in government-owned or government-leased housing was launched March 19, and runs through June 6.

OFF THE EASTERN SEABOARD, A U.S. NAVY MISSILE TEST COULD MAKE BIG WAVES

BY DAVID B. LARTER, C4ISRNET

A test announced in late March could herald an enormous change in the way the Navy modernizes its ships, while making a once prohibitive cost of maintaining older ships attainable.

The Navy destroyer Thomas S. Hudner had participated in a live-fire missile exercise with an Aegis “virtual twin” system. The service has been developing a system to significantly reduce the hardware footprint inside a ship needed to run the Aegis combat system.

When the Navy built its Arleigh Burke-class destroyers, installing the Aegis combat system into the hull required a large suite of hardware — computers, servers, consoles and displays — designed specifically to run Aegis software. Any significant upgrades to the suite of systems already installed, or to the Aegis system in general, required cutting a hole in the ship and swapping out computers and consoles — a massively expensive undertaking.

The virtual twin upends that model. According to a Naval Sea Systems Command news release, the virtual twin system is carried on the ship in rugged cases that, when stacked up,” are small enough to fit under a dining room table.”

“Thomas Hudner’s crew operated the Virtual Twin to fire a missile against an incoming target, proving the Virtual Twin can control radars and missiles to execute an engagement,” the release read. “Using virtualization technology, this system is able to run the AEGIS Weapon System code in a fraction of the original hardware space.”

Packing Aegis onto a handful of computers to control radars and sensors on the ship is a game-changer for the surface fleet and gets it closer to a goal that has eluded it for years: rapidly upgrading its combat system with the latest updates for far less money.

“The cost of Aegis baseline upgrades is outrageous,” said Thomas Callender, an analyst with The Heritage Foundation and a retired submarine officer.

The surface fleet, Callender said, is moving toward a system embraced by the submarine community that focused on rapid technology insertions into the combat system.

“We got away from the ’60s computer technology, where you had computers that took up an entire room, and moved towards cheaper and faster upgrades,” he said. “And if I can take out all that old equipment and swap it out for gear that takes up less space, I have space, weight, power and cooling now for other things like lasers.”

The model might also drive down the cost of modernizations. When the cruiser Normandy was equipped with the full Aegis Baseline 9 suite, which included new displays, consoles and a computer room full of powerful blade servers, it cost the Navy \$188 million and cost the ship a year pier-side.

Common combat system

The virtual twin model also could move the Navy closer to putting a single combat system on every ship.

What the surface fleet wants is a single combat system that runs on every ship, and runs everything on the ship, and one that isn’t particular about the hardware running it, so long as enough computing power is available.

The goal here is that if a sailor who is trained on a big-deck amphibious ship transfers to a destroyer, no extra training will be necessary to run the equipment on the destroyer — all the systems and functionality will be the same.

“That’s an imperative going forward — we have to get to one, integrated combat system,” Rear Adm. Ron Boxall, the chief of naval operations’ director of surface warfare, said in a December interview at the Pentagon with Defense News.

The Navy is moving in that direction with the Common Source Library. Developed by Lockheed Martin, the CSL is essentially the operating system of an iPhone: The Navy can use it to program applications that run sensors and weapons systems.

So if the Navy has a new missile system it wants to use, the software application to run it will be designed for use on the CSL — and ships with the CSL will be able to rapidly integrate it, just like downloading the latest navigation or gaming software for a smartphone.

But the issue is that CSL requires specific hardware

to function, said Tony DeSimone, chief engineer of Lockheed Martin’s Integrated Warfare Systems and Sensors unit.

“One of the challenges the Navy has, the constraints, is the hardware and infrastructure to support a [common integrated combat system],” DiSimone said during a roundtable with reporters late last year.

“So while we are marching forward with the capability to be open and take in apps, there is an antiquated architecture out there, and there is hardware that doesn’t support it,” he said. “You can’t run [integrated operating] systems today on UYK-43s. You’re just not going to be able to do it. So let’s gut them and put some blade servers in, and we’ll work with you.” The UYK-43 was once the Navy’s standard 32-bit computer for surface and submarine platforms.

Enter the virtual twin.

If the Navy can replicate all the form and function of a larger Aegis Combat System suite on a few computers that can be carried on a ship, and that system is hooked in with the Common Source Library, it has the potential to make the equipping of older equipment onto older ships less expensive. And it could allow those ships to run the latest and greatest Aegis software.

Lockheed designed the CSL to work in the virtual twin, noted Jim Sheridan, vice president of naval combat and missile defense systems at Lockheed.

“Everything we build for the Common Source Library is designed so the architecture is applicable to a virtual environment,” he said in an April 24 telephone interview.

There will still be a role for combat systems integrators, however, if the Navy adopts a virtual twin construct, especially when dealing with older platforms with older systems.

“I think it’s important that we not walk away from the system engineering required to make sure it has the redundancy that’s required, making sure we don’t leave any legacy interfaces behind as we go forward with virtual environments on ships,” Sheridan said.

April is Alcohol Awareness Month

Take an **honest** look at your alcohol use.

If you think your drinking is impacting your work or relationships, or if you suspect you may be struggling with addiction, the Navy’s non-disciplinary self-referral process allows you to seek help and remain an active duty Sailor.

The intent of a self-referral is to provide you with a means of intervening in the progression of alcohol abuse early enough for you to get help before a problem becomes more advanced and more difficult to resolve without the risk of disciplinary action.

A member may initiate the process by disclosing the nature and extent of their problem to DAPA, CO, XO, OIC or CMC, Navy Drug and Alcohol Counselor, DoD Medical Personnel, Chaplain, or Fleet and Family Support Center Counselor.

Refer to **OPNAVINST 5350.4D** for details and official policies.

F



D

DON'T WALK PAST IT, PICK IT UP
SAVE A LIFE

IKE'S MOVIE PLAYLIST

★★ FRIDAY, APRIL 19TH, 2019 ★★

CHANNEL 5

0815/2015: *SAILOR OF THE DAY'S CHOICE*
1045/2245: WONDER
1315/0115: TOP GUN
1545/0345: UNCLE DREW
1815/0615: HACKSAW RIDGE

CHANNEL 6

0815/2015: OVERBOARD
1045/2245: SPECTRE
1315/0115: HOOSIERS
1545/0345: SAUSAGE PARTY
1815/0615: ROMAN J. ISRAEL, ESQ

CHANNEL 7

0815/2015: CONCUSSION
1045/2245: DOWN PERISCOPE
1315/0115: HAPPY GILMORE
1545/0345: THE GIRL ON THE TRAIN
1815/0615: THE BIG LEBOWSKI

IKEMEDIA

COMMANDING OFFICER Capt. Kyle Higgins
EXECUTIVE OFFICER Capt. Jon Bradford

COMMAND MASTER CHIEF CMDM (SW/AW/EXW) Todd A. Mangin
PUBLIC AFFAIRS OFFICER Lt. Cmdr. Rick Chernitzer

ASSISTANT PUBLIC AFFAIRS OFFICER Ensign Lewis C. Aldridge

MEDIA DEPARTMENT LCPO MCC (SW/AW) John Smolinski
MEDIA DEPARTMENT LPO MC1 (SW/AW) Tony D. Curtis

EDITORS

MC3 (SW) Marques Franklin
MC3 Gian Prabhudas

MC1 (SW) Cyrus Roson
MC2 (SW/AW/EXW) Ridge Leoni
MC2 (SW/AW) Zach Sleeper
MC2 (SW) Dean Cates
MC3 (SW/AW) Trey Fowler
MC3 (SW/AW) Jake Stanley
MC3 (SW/AW) Neo Greene III
MC3 (SW/AW) Ashley Estrella
MC3 (SW) Sophie Pinkham
MC3 (SW) Devin Lowe
MC3 (SW) Kaleb Sarten

MC3 Ashley Lowe
MC3 Andrew Waters
MC3 James Norket
MCSN Sawyer Haskins
MCSN Jairus Bailey
MCSN Conner Houghtaling
MCSN Tyler Miller
MCSA Brianna Thompson
MCSA Dartez Williams
MCSA Trent Hawkins

ON THE COVER:

Aviation Structural Mechanic 3rd Class Shanice Raygoza smooths out a piece of metal in the jet shop aboard the aircraft carrier USS Dwight D. Eisenhower (CVN 69). Photo by MC3 Andrew Waters.



Proudly serving the crew of USS Dwight D. Eisenhower (CVN 69). Five Star is published by USS Dwight D. Eisenhower's (CVN 69) Media Department for the Ike crew. Contents are not necessarily the views of, nor endorsed by, the U.S. government, the Department of Defense, the Department of the Navy, or the Commanding Officer of USS Dwight D. Eisenhower (CVN 69). Editorial content is prepared and edited by USS Dwight D. Eisenhower's (CVN 69) Media Department. Ike's Five Star is distributed daily underway and on certain days in port on the forward and aft mess decks, Flag Mess, the CPO Mess, and Wardrooms 1, 2 and 3.