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Navy makes strides toward energy efficiency in 2015

Ho'okele Staff

The Navy in Hawaii continued efforts to promote energy efficiency in 2015.

On Dec. 15, Rear Adm. John Fuller, commander, Navy Region Hawaii and Naval Surface Group Middle Pacific, plans to present the Fiscal Year 2015 MIDPAC Energy Conservation Award to USS Preble (DDG 88).

Preble achieved a 19 percent reduction in electricity consumption below the MIDPAC guided-missile destroyer baseline. While operating forward, Preble consumed fuel at a rate of 23 percent below the DDG-class average. The ship is authorized to fly the MIDPAC energy conservation pennant for the remainder of Fiscal Year 2016.

Preble's award is the latest in a number of energy milestones achieved in the past year.

Navy and Marine Corps representatives gathered last February at the Marine Corps Base Hawaii's (MCBH) Klipper Golf



U.S. Navy photo by Blair Martin Gradel



U.S. Navy photo by MC2 Johans Chavarro



U.S. Air Force file photo



U.S. Air Force file photo

Course to bless the new wave energy test site (WETS) located in the waters off North Beach. This Navy-funded project plans to utilize wave power devices to extract energy from the surface-motion of ocean waves or from pressure fluctuations below the surface.

In September, the Fred Olsen Lifesaver wave en-

ergy converter (WEC) received a special Hawaiian blessing at Kilo Pier at Joint Base Pearl Harbor-Hickam (JBPHH). The Lifesaver, considered one of the most sophisticated WECs on the market today, was developed in Norway by Fred Olsen Renewables and is deployed for offshore testing at the MCBH WETS site.

April saw the Navy celebrating Earth Day and promoting environmental awareness. Several events were held, including a special Pearl Harbor Colors focusing on Earth Day. Pearl Harbor Colors is an honors and heritage ceremony held monthly at the World War II Valor in the Pacific National Monument.

At the April 23 ceremony, Lt. Cmdr. Rob Franklin, operations officer for Naval Surface Group Middle Pacific, spoke about the Navy's efforts to contribute to a more sustainable environment.

"In alignment with the Department of the Navy's 2015 Earth Day theme, 'A Sustainable Future Be-

gins With You,' our Sailors ashore and afloat are acting in innovative ways, taking ownership of efforts to conserve resources, shift to renewable energy, minimize hazardous waste, and recycle," said Franklin.

"One of the five goals is to demonstrate and then deploy a 'Great Green Fleet,' which will include ships and aircraft using alternative sources of energy and utilizing multiple energy conservation measures as part of their regular, scheduled deployments through the calendar year in 2016. 'The 'Great Green Fleet' represents the new normal, where our Navy values energy as a strategic resource, maximizing energy efficiencies and cultivating multiple sources of alternative energy," Franklin said.

October was Navy Energy Action Month, and Naval Facilities Engineering Command (NAVFAC) Hawaii marked the occasion by hosting an energy

See ENERGY page A-6

Japanese minister of defense visits USS Port Royal

Story and photo by MC2 Jeffrey Troutman

Navy Public Affairs Support Element Detachment Hawaii

Gen Nakatani, the Japanese minister of defense, visited and toured the guided-missile cruiser USS Port Royal (CG 73), Nov. 23, and spoke with the ship's commanding officer and personnel about the U.S. Navy's ballistic missile defense systems.

The ship tour was part of Nakatani's visit to Joint Base Pearl Harbor-Hickam to engage with Navy officials and learn more about the Aegis ballistic missile defense system (ABMD).

"I want to thank you for having me and my staff aboard your ship and taking time out of your busy schedule to talk to us about ABMD," said



Gen Nakatani, right, the Japanese minister of defense, speaks with Capt. Adolfo Ibarra, left, commanding officer of the guided-missile cruiser USS Port Royal (CG 73), and staff members of Nakatani's cabinet during a tour of the ship as part of Nakatani's visit to Pearl Harbor.

Nakatani through a translator.

"I'm here to visit with you to learn more about your missile defense systems and how they help keep our countries safe from enemy threats," he said.

Capt. Adolfo Ibarra, commanding officer of Port Royal, welcomed Nakatani and his staff aboard the ship and saw their visit as an opportunity to strengthen coalition ties.

"It is our pleasure to have yet another member of the coalition visit our ship," Ibarra said. "Previously we were visited by the Japanese training squadron and also the Japanese amphibious squadron, who engaged in several training events with our crew before they headed to San Diego."

Ibarra was joined by Cmdr. John Lipps, the commanding officer of the Pacific Missile Range Facility, Barking Sands on the

island of Kauai, who spoke with Nakatani about the ABMD located ashore.

Lipps said he was grateful for the opportunity to meet with Nakatani to help him better understand the ABMD ashore systems.

"The minister of defense wasn't going to be able to make it out to Kauai during his visit to see the ABMD, so I'm thankful for the opportunity afforded by Capt. Ibarra and his crew to come here to speak to him [Nakatani] about our ballistic missile defense systems," Lipps said.

Nakatani's visit to Pearl Harbor also included a tour of the Military Sealift Command's sea-based X-band radar, a wreath-laying ceremony at National Memorial Cemetery of the Pacific (Punchbowl) and a dinner reception with Adm. Scott Swift, commander of U.S. Pacific Fleet.



Events to commemorate 74th anniversary of Pearl Harbor remembrance

National Park Service

Navy Region Hawaii and the National Park Service have scheduled a series of upcoming events to observe the 74th anniversary of Pearl Harbor Remembrance Day with the theme "Pathway to Reconciliation — From Engagement to Peace." Events include:

- The National Park Service and the United States Navy will co-host the 74th commemoration of the attack on Pearl Harbor from 7:45 to 9:15 a.m. Dec. 7 at Kilo Pier, Joint Base Pearl Harbor-Hickam. Secretary of the Navy Ray Mabus and historian David Kennedy will give the principal addresses. Those with base access and their sponsored guests may enter through Nimitz or Makalapa Gate and may park in general

parking areas near Kilo Pier. The general public is required to park at Aloha Stadium with free ADA shuttle transportation to Kilo Pier from 6 a.m. to 7:15 a.m. with return shuttles to Aloha Stadium after the ceremony, from 10 a.m. to noon.

- A live stream of the National Pearl Harbor Remembrance Commemoration will be held online from 7 a.m. to 5 p.m. Dec. 7. The live stream includes three live events with 10 hours of educational and historical programming and begins at 7 a.m. (Hawaii Standard Time.)

- The 15th Wing will host a remembrance ceremony at the Atterbury Circle historic flagpole at 7:55 a.m. Dec. 7 to honor the 189 killed and 303 wounded during the attacks

at Hickam Field. The ceremony is open to those with base access and their sponsored guests.

- Due to ongoing ceremonies throughout the day public programs on Dec. 7 to the USS Arizona Memorial will operate on a special schedule. The first public program will begin at 11 a.m. with the last program at 2 p.m.

- A ceremony from 1:30 to 2:30 p.m. Dec. 7 at the USS Oklahoma Memorial on Ford Island will honor and commemorate the loss of the USS Oklahoma (BB-37) and 429 of its crew. Members of the public who wish to attend the ceremony may catch a free shuttle departing every 15 minutes from the USS Bowfin Submarine Museum & Park, which is adjacent to the Pearl Har-

bor Visitor Center.

Other events leading up to the Dec. 7 ceremonies include:

- A free special showing of the film "Tora! Tora! Tora!" will be shown at an After Dark in the Park event from 6 to 9 p.m. Saturday at the Pearl Harbor Visitor Center, theaters one and two. The film will be shown in its new director's cut in high definition, which includes new footage added to the film.

- A live webinar will be held at 8 a.m. (Hawaii Standard Time) Dec. 1 online via Adobe Connect. The National World War II Museum and the WWII Valor in the Pacific National Monument will commemorate the anniversary of the attack on Pearl Harbor through this special, live webinar.

- The Marine Forces Pacific Band will perform from 8:45 to 10 a.m. Dec. 2 at the Pearl Harbor Visitor Center lanai.
- The Air Force Band

of the Pacific will perform from 8:45 to 10 a.m. Dec. 3 at the Pearl Harbor Visitor Center lanai.

See DEC. 7 page A-6

Ford Island Bridge closure

Joint Base Pearl Harbor-Hickam Public Affairs

Dec. 7 ceremonies. All motorists and pedestrians are reminded to plan accordingly for those two days. The small craft gate will be closed during bridge opening evolution to minimize collision hazard present when roadway pontoon is in motion. All boat traffic under the causeway will be suspended during these events.

All lanes of the Ford Island Bridge will be closed from 9:15 to 10:45 a.m. Dec. 4 for rehearsal operations in support of Dec. 7 ceremonies. All lanes of the bridge will also be closed from 7 to 10 a.m. Dec. 7 for operations in support of the



McGinn tours Red Hill Fuel Facility during visit to Hawaii See page A-2



Four 'Ds' of dengue prevention for Oahu See page A-3



Military celebrates Native American heritage See page B-1



AF researchers aim to increase energy security See page A-2



PACAF commander attends Defense Writer's Group breakfast See page A-4



Fox Sports events planned for JBPHH See page B-3

McGinn tours Red Hill Fuel Facility during visit to Hawaii

Story and photo by
MC3 Katarzyna Kobiljak

Navy Public Affairs Support
Element Detachment Hawaii

Assistant Secretary of the Navy for Energy, Installations and Environment Dennis McGinn toured the Red Hill Bulk Fuel Facility, Nov. 17, during his visit to military installations in Hawaii.

Red Hill is a national strategic asset that supports military operations in the Pacific. The operational facility includes 20 large underground fuel storage tanks. The tanks are constructed of steel, encased in concrete, and surrounded and supported by basalt bedrock.

"My purpose is to visit installations in Hawaii," said McGinn. "I am here to see how our installations are working, to check on their infrastructure and utilities, and also to talk about how we are going to meet our critical mission of being good stewards of the environment here in Hawaii."

During his tour, McGinn asked



Assistant Secretary of the Navy Dennis McGinn, right, listens to a brief during a visit to the Red Hill Bulk Fuel Facility near Pearl Harbor.

questions and listened to briefs by both military and civilian subject matter experts.

"I have a tremendous amount of confidence, primarily in the people we have on the teams who are working on installations," McGinn said.

He stressed the importance of continuing efforts to raise a margin of environmental safety at the Red Hill facility by ongoing testing of water to ensure it is safe to drink.

"We are good neighbors," said McGinn. "We value our communities and, at the same time, we fulfill our national security mission. On top of that, we are taking good care of the environment."

McGinn talked about the significance of using latest environmental technology, renewable energy and energy efficiency. He said the Navy is looking for good, strong partners across the government, U.S. Environmental Protection Agency (EPA) and

companies in the private sector within communities.

"The environmental progress that we continue to make is really tremendous," said McGinn.

Rear Adm. John Fuller, commander of Navy Region Hawaii and Naval Surface Group Middle Pacific, hosted the visit to the Red Hill Fuel Facility.

"We have increased our vigilance and response capabilities. My environmental professionals continue their long-term effort to monitor groundwater and drinking water sources and to provide the results to regulatory agencies for evaluation and assessment. The results indicate that the drinking water remains safe for all users," Fuller said.

He was joined on the tour by several subject matter experts including Capt. Dean Tufts, commanding officer of Naval Facilities Engineering Command Hawaii, and Capt. Ken Epps, commanding officer of Naval Supply Fleet Logistics Center Pearl Harbor.

"Assistant Secretary of the

Navy McGinn is the leading advocate in the department of the Navy for all things environmental and he is a very powerful voice in D.C.," Epps said.

"We want to ensure he has the latest up-to-date information about Red Hill, so he can educate and advocate on our behalf."

Epps explained the reason behind the latest tours and engagements with community leaders and media.

"We want to be as transparent as possible with the community and to those who care about the Red Hill facility," Epps said.

"We educate as many people as possible about safety and operations at Red Hill. We keep the public informed on how efficient Red Hill is and all the environmental protections that we have in place to make sure that we can prevent, to the greatest extent possible, any future incidents associated with Red Hill," Epps said.

(For more information about the Red Hill Bulk Fuel Facility, visit www.cnic.navy.mil/redhill.)

AF researchers aim to increase energy security through microgrids

Project planned for
Joint Base Pearl
Harbor-Hickam

Holly Jordan

Air Force Research Laboratory
Materials and
Manufacturing Directorate

WRIGHT-PATTERSON AIR FORCE BASE, Ohio (AFNS)—The Air Force Research Laboratory (AFRL), in conjunction with the Hawaii Center for Advanced Transportation Technologies, is exploring microgrid and alternative fuel technologies in an effort to move military operations toward greater energy independence.

Under the terms of a recent five-year, \$20 million cooperative agreement, AFRL will manage

and facilitate a microgrid demonstration project at Joint Base Pearl Harbor-Hickam in Hawaii. When complete, the project is expected to enable the Hawaii Air National Guard to function independently of the power grid for extended periods of time.

The project incorporates a number of energy-harvesting and storage technologies, including hydrogen vehicles and equipment, waste energy usage, wind power harvesting, and solar panels. It builds upon a previous cooperative agreement with AFRL that established advanced hydrogen production and hydrogen-powered vehicles and equipment at the base.

Kevin Spitzer, an AFRL program manager, said that initial design and



Courtesy photo of Hawaii Center for Advanced Transportation Technologies Natural Power Concepts personnel and Lt. Col. Scott Fitzner, of the AFRL Materials and Manufacturing Directorate, inspect the spoke wheel medium wind power system.

integration efforts at the base are currently underway, and AFRL personnel are working in conjunction with Kansas City-based contractors Burns and

McDonnell to identify and quantify project requirements.

The Hawaii Air National Guard began initial grid engineering, with solar

panels and batteries being installed or moved in preparation for integration with additional microgrid equipment and controls. Spitzer said if everything progresses according to schedule, this installation and integration will begin next summer.

When complete, the project is expected to yield numerous benefits for the Air Force and beyond. For the 154th Wing of the Hawaii Air National Guard, which flies F-22 Raptors out of Joint Base Pearl Harbor-Hickam, a separate microgrid ensures continuous flight and test operations even in the event of a disruption to the traditional power grid.

"On a broader scale, this project will demonstrate the practicality of microgrids and renewable energy sources to provide energy

security for military facilities across the Air Force," Spitzer said.

The project will also aid the state of Hawaii in their effort to explore new and more accessible forms of energy. Hawaii Gov. David Ige recently committed the state to a 100 percent renewable energy standard by the year 2045 with the signing of four separate bills.

"Hawaii's commitment to alternative energies made them the natural choice for a project like this," Spitzer said.

"Hawaii's high fuel costs mean that, for us, the return on investment is much quicker. Plus, their commitment to a greener standard makes them great partners in this effort. It's a potential win-win for everyone involved," Spitzer said.

Diverse VIEWS



What tip do you have to help people quit smoking?



YN2 Matthew Chamberlain
NIOC

"I suggest doing a lot of exercise. It helps to replace a potential addiction with another."

Master Sgt. Christina McCarty
PACAF IG

"Seek help and support. I would get them in contact with the right people for that support, and ensure they know they are making the right decision. The individual will need motivation and encouraging words."



Senior Master Sgt. Diane Kelsey
324th Intelligence Squadron

"Have a support network and/or someone to hold you accountable. Quitting smoking is a battle, so get yourself a battle buddy."



QM2 Kyle Stevens
Navy Region Hawaii

"Staying active helps to keep your mind active and off smoking. The first three days are the hardest."



Chief Master Sgt. Dominador Molina
154th Maintenance Squadron,
HIANG

"Spend quality time with people who don't smoke, and have your non-smoking friends as your support network."



SW3 Steven Raczowski
CBMU-303

"To help quit smoking it is best to stay active and distract your mind. Chewing gum works as a great distraction."



Senior Airman Garren Richardson
15th Maintenance Squadron

"To take control of their own life, have the ambition and drive to want more out of life, and not let something as simple as a cigarette have control of you and yours."



Tech. Sgt. Brant Rusmisl
690th Cyberspace Operations Squadron

"Let your friends know you are committed to quit smoking. This will help with your resolve, since you have a built in support group. One thing that helped one of my friends was to chew gum when the urge struck. Remember you have to be committed to yourself and believe you can do it."



Provided by Lt. Paul Fylstra and David D. Underwood Jr.

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Commentary

Recognizing, honoring humble heroes of WWII

Rear Adm. John Fuller

Commander, Navy Region Hawaii and Naval Surface Group Middle Pacific

Those of us who serve here in Hawaii have a special opportunity. Each year on Dec. 7 our Navy joins with the National Park Service to host the key National Pearl Harbor Remembrance Day ceremony.

We will conduct this year's event at Kilo Pier across the harbor from Ford Island and Battleship Row—within view of the USS Arizona Memorial and Battleship Missouri Memorial. The ceremony begins just before 8 a.m., timed to match the attack 74 years ago.

Secretary of the Navy Ray Mabus and historian David Kennedy will give the principal addresses.

Pearl Harbor survivors and other World War II veterans are honored guests at each year's ceremony. They come to show their respect to their shipmates and comrades who never came home. Many of them wear their own special uniform: hat,



Rear Adm. John Fuller

jacket and aloha shirt.

They come to teach us—and the world—the lessons of their war. When we talk to the veterans of the War in the Pacific, they tell us they were just doing their jobs, serving their country, answering the call.

Their gentle humility belies the strength of their character.

Pearl Harbor survivors and other WWII warfighters faced down aggression, demonstrated great resolve, and brought our nation onto the pathway to reconciliation. The result: over the past seven decades, former enemies became friends, and most Pacific Ocean nations saw

greater freedom, democracy, peace and prosperity.

Today, our installations, ships and submarines, and land and air forces in Hawaii are at the center of the nation's rebalancing to Asia-Pacific. From here, we help protect our homeland and ensure we do everything we can to support Adm. Harris and U.S. Pacific Command and Adm. Swift and U.S. Pacific Fleet.

The World War II veterans' sacrifices earned our freedom.

We must remain vigilant while "standing the watch" that protects what our veterans earned—we should remember that it is an honor and privilege to carry on their legacy.

There will be many observances throughout the week and during the day on Dec. 7 in and around Pearl Harbor. Of note, this year we will welcome Olympic, collegiate and national athletes and all-stars, as well as top TV sports commentators from Fox Sports. They will come to Hawaii to help commemorate the "greatest generation's" accomplishment and to show their appreciation for our

current service members' commitment to defending the nation.

They know, as we do, that the survivors and other World War II veterans are in the military's Hall of Famers, and—along with our veterans on active duty—are the nation's unsung heroes and superstars.

Those of you who volunteered to serve, please accept the honor to stand apart from the crowd and show your pride in the cloth of our nation—your uniform. Please help us thank the heroes who fought for our freedom; remember the lessons and sacrifices from Dec. 7, 1941; demonstrate our pride in the force we support today; and always show our firm resolve to those who wish to do us harm.

We will always remember Pearl Harbor because we know that history forgotten and not honored is destined to be repeated.

Thank you to all the military veterans and current service members, civilian teammates and families. I hope to see you at one or more of the observances in the days ahead.

Four 'Ds' of dengue prevention for Oahu

Lt. James F. Harwood

Entomologist, Navy Environmental and Preventive Medicine Unit Six

As of Nov. 24, there have been a total of 93 confirmed cases of dengue fever on the Big Island of Hawaii and one case of the disease in east Oahu. While the sick individual in Oahu was infected during a trip to Southeast Asia, the disease is being transmitted and spread on the Big Island by mosquitoes.

Dengue fever is caused by an infection by the dengue virus. Symptoms include high fever, headaches, pain behind the eyes, joint and muscle pain, and rash. The virus responsible for dengue fever is contracted from the bite of a female yellow fever mosquito (*Aedes aegypti*) or Asian tiger mosquito (*Aedes albopictus*).

These mosquitoes live in close proximity to humans and lay eggs near homes in containers, like flower dishes and pet bowls, discarded tires, and water-filled plant parts, such as cut bamboo and tree holes.

The mosquitoes are most active during the day and will feed on people inside and outdoors. The general public can do a lot to fight the spread of this disease to Oahu by helping reduce the numbers of mosquitoes in and around homes and work sites. Here's what you can do to make sure mosquitoes are unable to breed in and around your home:

- **Drain:** Empty bird baths, vases, potted plants and flower dishes. Change the water and clean pet bowls daily. Clean out blocked drains and roof gutters.

- **Discard:** Throw away any disposable containers holding water, like cans or bottles, and arrange for proper removal of unused tires.

- **Deny:** Deny mosquitoes entry into



Photos courtesy of Walter Reed Biosystematics Unit (www.wrbiu.org).

These are the primary mosquitoes that transmit dengue fever, the yellow fever mosquito (*Aedes aegypti*) (left) and the Asian tiger mosquito (*Aedes albopictus*) (right).

your home by making sure window screens are placed on all windows and are not damaged. Keep screen doors closed and free of holes. Deny mosquitoes their habitat near your home by keeping grass short and hedges well groomed.

- **DEET:** Apply DEET or other insect repellents when you are outside, especially in areas where mosquitoes are present in high numbers. Be sure to follow the manufacturer's instructions for how often to reapply to make sure you and your family are protected. Also, wear long-sleeved shirts and long pants to further reduce the risk of being bitten when outside where mosquitoes are present.

By following these four Ds of dengue prevention, you can minimize the risk

of transmission for yourself, your family and your fellow service members. Seek medical attention if you are feeling ill after any travel to the Big Island, or anywhere in Asia or the Pacific Islands, and let medical staff know your travel history. Together we can make sure dengue fever does not affect our health and mission readiness.

(For more information regarding mosquito identification and/or control, contact the NEPMU6 Entomology Department at usn.jbphh.navenpvtmedusixhi.list.nepmu6-entomology@mail.mil. More updates and information on the Hawaii dengue epidemic are available through the State of Hawaii Department of Health website at <http://health.hawaii.gov/docd/dengue-outbreak-2015/>.)

USS Enterprise launched in 1961

USS Enterprise (CVAN 65), the U.S. Navy's first nuclear-powered aircraft carrier, was commissioned in Newport News, Va. on Nov. 25, 1961, (54 years ago this week) with Capt. Vincent P. de Poix serving as commanding officer.

U.S. Navy archive photo



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PACAF commander attends Defense Writer's Group breakfast

Secretary of the Air Force Public Affairs

WASHINGTON (AFNS)—Pacific Air Forces Commander Gen. Lori Robinson fielded questions from the Defense Writer's Group during a breakfast held Nov. 18 at the Fairmont Washington Hotel.

The DWG is an assembly of national security reporters from major publications across the nation that convenes for question-and-answer sessions with top military and government



Gen. Lori Robinson

officials several times throughout the year. Robinson, who is re-

sponsible for the air component for U.S. Pacific Command, answered questions from the media regarding a variety of topics concerning PACAF, which is comprised of approximately 46,000 military and civilian personnel.

"As the Pacific Air Forces commander, I focus the command's energy in the region for what I call the four 'Ps': Presence, partnership, power projection and people," Robinson said.

"Presence of our force in key locations through-

out the region underpins the rules-based international order that provides the opportunity to engage in other countries and prepare for crisis," she said.

At any time, roughly 1,700 of those 46,000 military and civilian personnel are deployed around the globe supporting operations, considering Pacific Air Forces area of responsibility encompasses 52 percent of the Earth's surface, with more than 83 percent of that being water.

"Our presence enables partnerships, whether it's the long-standing partnership with Japan and Australia—or the growing partnerships such as the increased military-to-military relationship with the Chinese," Robinson said.

That presence of joint military forces in key locations throughout the region underpins the international order and provides opportunities to engage with other countries while being positioned to respond to crises.

"In consistent presence, building partnerships, to me, equals power projection throughout the region, whether it was responding to humanitarian assistance and disaster relief, or the flying of Red Flag Alaska for training," Robinson said.

"But it takes great people, and the Airmen—your Airmen of your United States Air Force—and their families are great ambassadors for our United States," she said.

Coast Guard, NOAA team up to save whales

Story and photo by Staff Sgt. Chris Hubenthal

Defense Media Activity – Hawaii News Bureau

HONOLULU—As 2015 nears its end, the region can expect an increase in humpback whales as the animal's peak breeding months begin in January.

The U.S. Coast Guard and National Oceanic and Atmospheric Administration (NOAA) trained together while underway off the coast of Oahu, Nov. 10. The training helped familiarize participants with skills and techniques needed to safely help whales that become entangled in debris.

Coast Guardsmen assigned to U.S. Coast Guard District 14 Station Honolulu received classroom instruction and hands-on training focused on attaching transmitter buoys to simulated whales. By familiarizing themselves with equipment and tactics, some participants felt more confident in handling equipment necessary to disentangle whales during a real-world operation.

Edward Lyman, large



U.S. Coast Guardsmen train and learn from members of the National Oceanic and Atmospheric Administration (NOAA) to familiarize themselves with skills and techniques to help disentangle whales Nov. 10 off the coast of Honolulu. The training was focused on tactics to help humpback whales that get caught in various forms of man-made debris.

whale entanglement response coordinator for NOAA Hawaiian Islands Humpback Whale National Marine Sanctuary, led the instruction of the training event.

"We are reviewing our operations toward freeing a large whale from a life-threatening entanglement," Lyman said.

"It's unique for both sides. Both the NOAA fisheries and the sanctu-

ary deal with these large whales with the Coast Guard. [Coast Guardsmen] do a lot of human safety but this is a little bit different. It's still human safety but it's also whale safety. We're working together, taking advantage of our different expertise, our skillsets, and our resources to come together, pull those resources and get the job done safely," he said.

During the training, Coast Guardsmen took turns attempting to throw a grappling hook and snare a line that simulated debris attached to a humpback whale. After catching the line, another Coast Guardsman dropped a transmitter buoy that was connected to the hook to ensure the marine animal could be tracked.

Lyman explained why the training is so critical

in the waters surrounding the Hawaiian Islands.

"This is the major and most important breeding ground of humpback whales in the north Pacific," Lyman said. "We're talking over 10,000 humpback whales that are going to be here throughout the whale breeding season."

U.S. Coast Guard Fireman Corey Moses, Station Honolulu engineer, said that the training was an experience that offered knowledge he plans to hold onto.

"I took away experience first and foremost," Moses said. "Being able to be more comfortable in that situation is outstanding when I run into this or if somebody needs advice on this situation. It's just more experience and knowledge, the basis of everything we do here."

Moses said that working with NOAA during the training was beneficial and a great opportunity.

"These guys do it, it's their job to do it, and to have them come to teach us how to do it is an honor," Moses said.

"It's just another tool that we can use in these situations. We do see these

kinds of situations, so it's very practical knowledge," he said.

Aside from making sure professionals such as members of the Coast Guard, NOAA Fisheries, the sanctuary program, and Hawaii's Department of Land and Natural Resources, are prepared to respond to situations involving whales, Lyman hopes that the local populace remains safe.

"We need some help here," Lyman said. "We don't want the people on the water to engage and cut the animals free on their own, but we need the reports. We need people to call us in. They are the foundation of the effort. Please call that hotline number, 888-256-9840, call the Coast Guard on Channel 16, they'll relay the report. That's a major role that everyone out there can play."

Lyman said that with the combined efforts and cooperation of the community, NOAA, Department of Land and Natural Resources, and the Coast Guard, the rescuing of whales in the north Pacific can be accomplished more effectively and safely.

Pearl Harbor-Hickam *Highlights*



U.S. Air Force Capt. Jared Fujii, Raptors pilot, talks with Republic of Korea Air Force Academy cadets Nov. 10 at Joint Base Pearl Harbor-Hickam. The cadets' visit was part of an effort to build a foundation of partnership and interoperability between Headquarters Pacific Air Forces and future ROKAF leaders.

U.S. Air Force photo by Tech. Sgt. Amanda Dick

(Right) Cmdr. Doug Gray of Mililani took the helm of a Navy fighter squadron when he became commanding officer of the "Eagles" of Strike Fighter Squadron (VFA) 115, Nov. 21, during an airborne change of command ceremony aboard the U.S. Navy's forward-deployed Nimitz-class aircraft carrier USS Ronald Reagan (CVN 76).

(Below) F/A-18E Super Hornets from the "Eagles" of Strike Fighter Squadron (VFA) 115 perform a fly-by near the flight deck of the aircraft carrier USS Ronald Reagan.

U.S. Navy photos by MC3 Ryan McFarlane

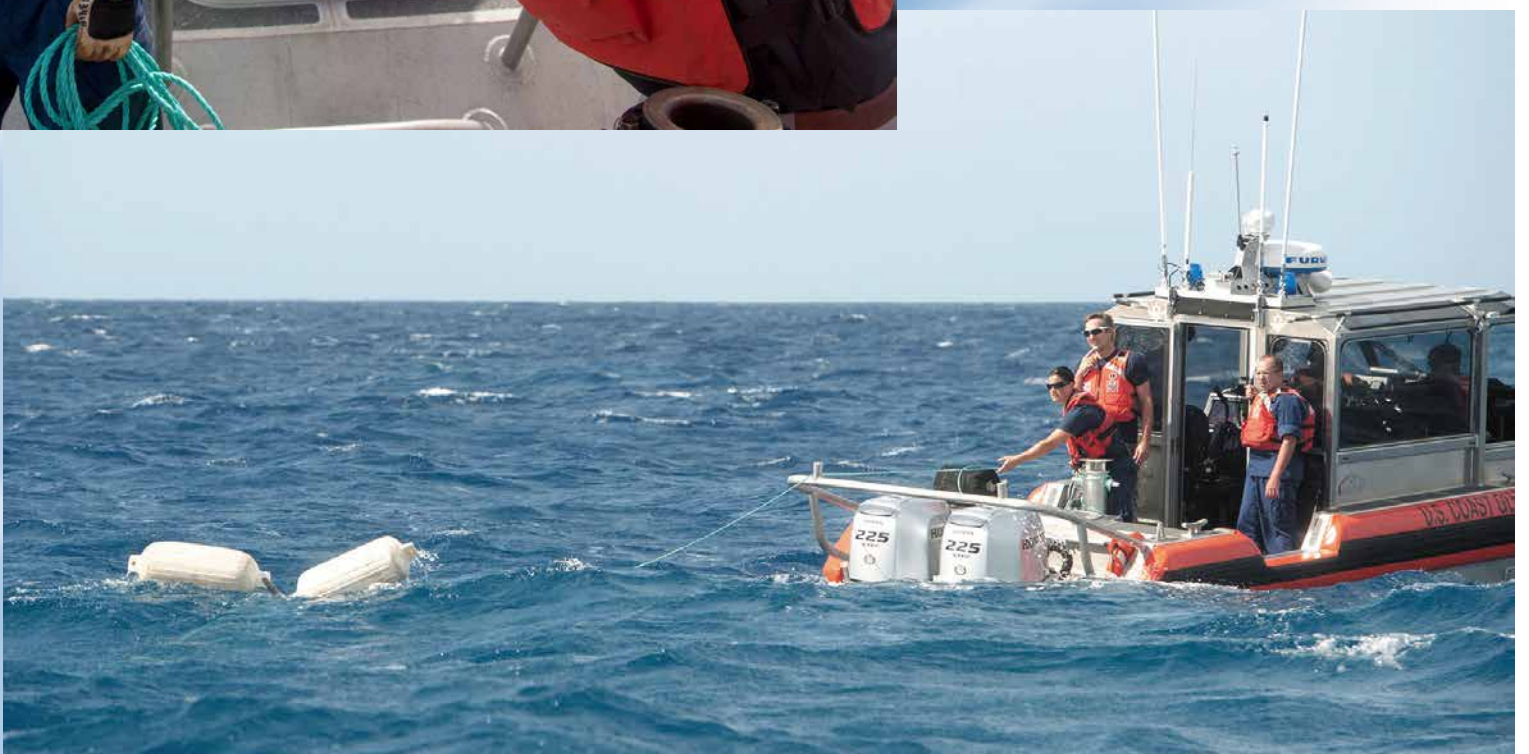


U.S. Coast Guard Fireman Corey Moses, Station Honolulu engineer, listens to Edward Lyman, National Oceanic and Atmospheric Administration (NOAA) Hawaiian Islands Humpback Whale National Marine Sanctuary large whale entanglement response coordinator, as he gives advice on how to throw a grappling hook during whale disentanglement training facilitated by members of the NOAA, Nov. 10, off the coast of Honolulu. (Story and additional photo on page A-6.)

U.S. Air Force photo by Staff Sgt. Christopher Hubenthal

(Right) U.S. Coast Guardsmen pull in flotation equipment used to simulate a whale during training Nov. 10, facilitated by members of the National Oceanic and Atmospheric Administration (NOAA) to familiarize themselves with skills and techniques to help disentangle whales off the coast of Honolulu.

U.S. Air Force photo by Staff Sgt. Christopher Hubenthal



Energy projects help Navy stay on track

Continued from page A-1

action fair and training sessions for Navy, Air Force and civilian building energy monitors (BEMs) at the Ford Island Conference Center, JBPHH. At the event, Katie Ramirez, NAVFAC Hawaii energy team member and Joint Base Pearl Harbor-Hickam (JBPHH) installation energy manager, talked about the Navy's goal of reducing energy consumption by 50 percent by 2020.

"This is a very ambitious set of goals that will take everyone's participation," she said. "Imagine if you had to cut your home energy bill in half. You would have to make some pretty drastic changes in the way you live. That's what will need to be done here at work with everyone adjusting their behavior on how they get the job done, cutting the Navy's energy use in half."

Many of the strides the Navy made in 2015 were the result of ongoing projects.

For example, the move toward solar energy continues. In summer 2014, Secretary of the Navy (SECNAV) Ray Mabus, along with Navy and Marine Corps senior leaders, announced the launch of the Navy's largest solar power generation system project in Hawaii during a ground-breaking and blessing ceremony at Hospital Point, JBPHH. Waipio, Marine Corps Base Hawaii and Camp Smith are all to be part of the project.

"This is a large project with 10 rooftop photovoltaic systems and four ground-based or elevated systems, built on three different bases," said Mabus. "In the first year alone, we expect that these systems will save the taxpayers \$1.6 million. That's the equivalent of the electricity that can be generated from 54,000 barrels of oil here in Hawaii. It's the amount of electricity needed to power more than 5,000 average homes here, and that's just in the first year. This program will be generating those savings for decades. The work we are doing here will serve as a model for other projects around the world."

The Navy also continues to work to further incorporate light-emitting diodes (LED) lighting on-board ships. LEDs reduce energy consumption, protect the environment and save money. In 2011, Pearl Harbor's own USS Chafee (DDG 90) became the first U.S. Navy ship to be fitted with all-LED lighting.

One of JBPHH's most iconic sites uses LED lights as well. When the 76-year old water tower, dubbed the "Freedom Tower," is lit up for the holidays on Dec. 11, it will be with LED lights. The tower first switched to LEDs in 2014.

It isn't just the operational side that is working toward more responsible energy usage. Housing is a major part of the Navy's "green" vision as well.

"The residents living in Forest City Navy pub-

lic-private venture housing continue to conserve electricity and support the Navy Resident Energy Conservation Program (RECP)," said Darryl Nii, Navy Region Hawaii Resident Energy Conservation Program (RECP) coordinator.

"Since RECP was implemented in January 2011 through September 2015, residents conserved over 51.4 million kilowatt hours which equates to over \$18 million. This savings was used to cover the rising cost of utilities, pay for operating costs, and make deposits into important project reserve accounts that will fund re-capitalization projects as the homes and neighborhoods need upgrades and replacements," Nii said.

Forest City continues to participate in the "Know Load" program, a program designed to help residents know the energy load their homes are carrying and to help them conserve electricity and lower their monthly electric bills.

A major future project is 2016's Rim of the Pacific Exercise (RIMPAC). While the world's largest international maritime exercise is still more than six months away, plans are already underway to make it the "greenest" RIMPAC yet.

During 2012's RIMPAC, the Navy demonstrated what is known as the "Great Green Fleet" by operating a carrier strike group's surface ships and aircraft with a biofuel blend. The demonstration successfully evaluated the performance of "drop-in replacement" advanced biofuel blends and certain energy efficient technologies in an operational setting. All systems performed at full capacity.

The Navy plans for biofuels to comprise up to 50 percent of the fuel used by deploying ships and aircraft throughout the fleet in calendar year 2016. Many or most of the ships and aircraft participating in RIMPAC 2016 will likely be utilizing biofuels.

Dec. 7 events

Continued from page A-1

- The Army 25th Infantry Division Military Band will perform from 8:45 to 10 a.m. Dec. 4 at the Pearl Harbor Visitor Center lanai.

- An Afternoon in the Park event will be held from 4 to 5 p.m. Dec. 4 in the Pearl Harbor Visitor Center Theater. Guests can join Scott Pawlowski, chief of cultural resources, for an inside look into the new underwater world of 3-D scanning and photography of the sunken remains of the USS Arizona. The event will discuss a number of key cultural program highlights that occurred in 2015.

- An After Dark in the Park event featuring an evening with Professor David Kennedy will be held from 6:30 to 7 p.m. Dec. 4 at the Pearl Harbor Visitor Center Theater. The event will include a book signing for the Pulitzer Prize-winning book, "Freedom from Fear" from 7:15 to 8:45 p.m.

- The Pacific Fleet Band will perform from 8:45 to 10 a.m. Dec. 5 at Pearl Harbor Visitor Center lanai.

- From 8 a.m. to 4 p.m. Dec. 5 and 8 a.m. to 2 p.m. Dec. 6 at the Pearl Harbor Visitor Center education building classroom, the local chapter of International Plastic Modelers Society will have a free public display of ships, planes and vehicles related to those used during the attack on Oahu and Pearl Harbor.

- An Ewa Mooring Mast Field Commemoration will begin at 10 a.m. Dec. 6 at Ewa Field, across from the Hawaiian Railway Museum, West Oahu. Members of the local community and veterans will participate in the annual observance of the attack on Ewa Mooring Mast Field, which was defended by the U.S. Marines. The ceremony honors those who were killed that day, both Marines and civilians.

For complete information, visit <http://www.pearlharborevents.com>.

Giving thanks for 42K pounds of roasted turkey

Debbie Dortch

*Naval Supply Systems
Command Corporate
Communications*

MECHANICSBURG, Pa. (NNS)—Navy culinary specialists (CSs) prepared for one of the year's most anticipated meals aboard Navy ships—Thanksgiving.

While menus can vary by ship, they typically include many traditional favorites, only in much larger quantities than the average American holiday feast.

"Nothing impacts Sailors on a day-to-day basis more than the food CSs prepare for them," said Cmdr. Bert Hornyak, Naval Supply Systems Command (NAVSUP) Navy food service director.

"Our CSs work very, very hard to make this Thanksgiving meal, and every meal, something Sailors can look forward to and enjoy."

In 2014, CSs prepared:

- Roast turkey - 42,246 pounds
 - Mashed potatoes - 10,885 pounds
 - Corn bread stuffing - 9,074 pounds
 - Sweet potatoes - 8,864 pounds
 - Corn on cob - 7,488 pounds
 - Green bean casserole - 3,982 pounds
 - Cranberry sauce - 3,272 pounds
 - Gravy - 526 gallons
 - Assorted pies - 4597 pies
- The Navy's 7,300 CSs, deployed around the globe, feed on average of more than 92.5 million wholesome and nutritious meals per year, ensuring the Navy's fighting forces operate at peak performance and are ready to respond to threats worldwide.

"It's hard being away from family and friends while deployed, especially around the holidays, and having a great Thanksgiving meal is one way we can come together as a Navy

Capt. Karl Thomas, far right, commanding officer of the Nimitz-class aircraft carrier USS Carl Vinson (CVN 70), serves food to Sailors on the mess decks during Thanksgiving dinner.

U.S. Navy photo by MC2 Nick Brown

family," Hornyak added.

NAVSUP provides U.S. naval forces with quality supplies and services. With headquarters in Mechanicsburg, Penna. and employing a diverse, worldwide workforce of more than 22,500 military and civilian personnel, NAVSUP oversees logistics programs in the areas of supply operations, conventional ordnance, contracting, resale, fuel, transportation and security assistance.

In addition, NAVSUP is responsible for quality-of-life issues for our naval forces, including food service, postal services, Navy Exchanges and movement of household goods.



STORY IDEAS?

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