

# CNO Environmental Awards Recognize Exceptional Stewardship

## Efforts of Fiscal Year 2010 Winners Highlight the Ranges of the Navy's Commitment

**WINNERS OF THE** annual Chief of Naval Operations (CNO) Environmental Awards program have been announced for Fiscal Year (FY) 2010. The awards recognize people, ships, and installations for their exceptional environmental stewardship.

The competition categories for FY 2010 included natural resources conservation (large installation), cultural resources management (installation), environmental quality (industrial installation, overseas installation, and small ship), sustainability (non-industrial installation and individual/team), environmental restoration (installation), environmental excellence in weapon system acquisition, small program, (individual/team), and environmental planning (team).

Nominations were judged on accomplishments from 1 October 2008 through 30 September 2010. The CNO award winners were honored at a 7 June 2011 ceremony at the United States Navy Memorial in Washington, D.C. Accomplishments of the FY 2010 CNO environmental award winners are highlighted here:

### Natural Resources Conservation

The purpose of this award is to recognize efforts to promote the conservation of natural resources, including the identification, protection, and restoration of biological resources and habitats; the sound management and use of the land and its resources; and the promotion of the conservation ethic.

#### Large Installation

##### Naval Air Station Lemoore, California

The natural resources team at Naval Air Station (NAS) Lemoore is responsible for a wide array of resource related tasks, including managing natural resource projects, real estate leasing, pest management, cultural resources coordination, implementation of the agricultural outlease program, National Environmental Policy Act (NEPA) compliance, implementation of the Bird Aircraft Strike Hazard (BASH) program, and serving as environmental resource planning technical advisors to the commanding officer. During the reporting period, the natural resources team maintained all of its regulatory compliance responsibilities, developed and implemented a number of environmental

projects, including wetland construction, sensitive species management, and groundwater monitoring, and provided professional expertise towards alleviating a water shortage situation that befell the installation during a time of extreme drought. Finally, the team was instrumental in preventing encroachment around NAS Lemoore by coordinating efforts by federal, state, municipal agencies, and various non-governmental organizations to identify strategies suitable for agricultural and conservation easement collaboration and planning.

##### Naval Base Coronado, California

With the second highest concentration of federally listed species on a Department of the Navy installation and the fourth highest concentration on a Department of Defense (DoD) installation, Naval Base Coronado's (NBC) conservation program is based on an ecosystem management approach, which includes comprehensive management of 22 federally listed species and their habitats. NBC boasts a San Clemente Island fox management and natural resource compliance and outreach program that set the standard for other federal



The San Clemente Island fox was recently listed by the U.S. Fish and Wildlife Service on four of the eight Channel Islands, but it was not listed on San Clemente Island due to effective management by the Navy.

agencies and private institutions. Both installation personnel and surrounding communities benefit from NBC's support of ecosystem balance and biodiversity through maintained or increased environmental quality (e.g., water quality), support of transient natural resources (i.e., migratory birds) that have value off the installation, and the continued or improved ability of the land to withstand both natural and man-made disturbances, which is critical to military and civil preparedness and overall security.

#### Naval Base Ventura County, California

The environmental division at Naval Base Ventura County (NBVC) manages a natural resources program that balances stewardship of its extensive natural resources with the critical mission as a major aviation shore command and Naval Construction Force mobilization base. NBVC's Environmental Management System (EMS) is a critical component to the management of its successes. Some of the major achievements of the program during FY 2009 and FY 2010 included the removal of feral cats on San Nicolas Island to restore seabird nesting colonies and the

initiation of a program to re-establish eelgrass in Mugu Lagoon. The three facilities comprising NBVC are home to seven federally listed species and two state listed species. Thus, the natural resources program has focused the majority of its management activities on the effective oversight of these threatened and endangered species, as well as marine mammals and other

protected species and their associated habitats.

### Cultural Resources Management

The purpose of this award is to recognize efforts to promote the management of cultural resources, including the identification, protection, and restoration of historical buildings, structures, and archaeological sites;



The federally endangered salt marsh bird's beak is specialized to grow only in salt marshes of southern California coastal estuaries. Each year, NBVC's natural resources conservation team maps the distribution of this bird to determine population status and to avoid impacts from mission and recreational activities.

and the promotion of the cultural resources conservation ethic.

**Installation**

**Naval Air Station Fallon, Nevada**

NAS Fallon's full time archaeologist is responsible for the management of all its cultural resources, including archaeological sites, historic sites, transportation routes, rural landscapes, and historic buildings and structures on the installation. About 18 percent of NAS Fallon has been surveyed for archaeological resources and approximately 420 sites have been recorded to date. The installation also manages nearly 200 buildings and structures that date from World War II (WWII) through the Cold War,

as well as several early 20th century ranches. In FY 2010, a comprehensive historic building inventory was conducted, the results of which will be invaluable in the ongoing management of historic buildings and structures. A similar project inventoried several historic ranches. An architectural study of the ranches suggested that the properties are a unique resource and may be part of a historic rural landscape eligible for inclusion in the National Register of Historic Places. Finally, archaeological inventories conducted for ground training and geothermal exploration projects have led to the discovery of over 100 new archaeological sites. Through continuing cooperative efforts with

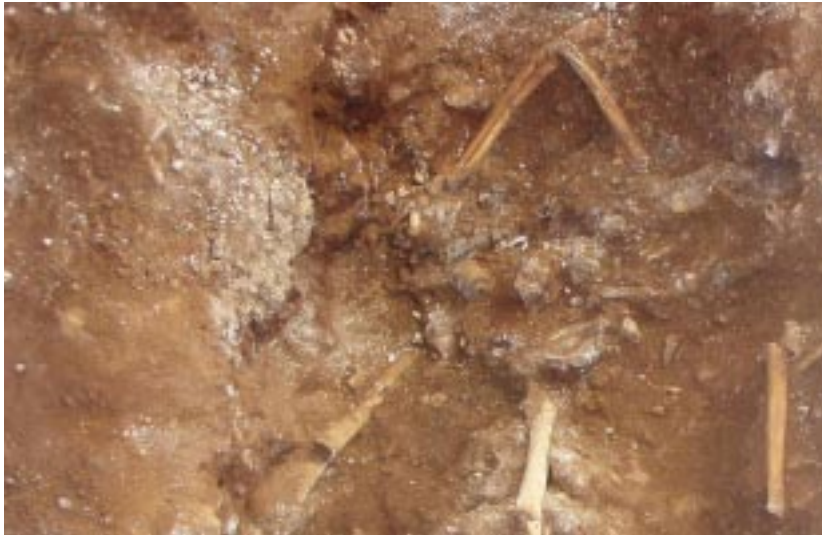
the Nevada State Historic Preservation Office and the Bureau of Land Management, the NAS Fallon cultural resources program has proven to be an effective historic preservation partner in the state of Nevada.

**Naval Base Guam, Guam**

The cultural resources management program on Naval Base Guam (NBG) oversees more than 2,000 cultural resource projects. Coordinating with the local government and federal and private agencies, the cultural resources management program ensures that NBG remains a leader in its stewardship toward cultural preservation. Accomplishments of the program include preservation of the



The Devore Homesite adobe, constructed in the 1930s, is one of several historic ranch properties managed by NAS Fallon.



These human remains were discovered on Navy property, and were successfully repatriated to the Government of Japan. The cultural resources program at NBG oversees and manages archaeological recovery.

oldest reservoir on Guam, the Maanot Water Reservoir located on NBG Munitions Site; successful repatriation of two Japanese WWII casualties to the Government of Japan, while

another five Japanese WWII casualties are in the process of repatriation; and recovery of two pre-contact Chamorro (indigenous people of the Mariana Islands) burials that are now in the



The photovoltaic panels added to the new Engineering Product Support Facility at FRC East helped to move the project from LEED Silver to LEED Gold certification. These panels provide a clean, renewable energy source for 23 percent of the facility's energy use.

process of analysis and preparation for respectful reburial in consultation with the Guam State Historic Preservation Office.

### Environmental Quality

The purpose of this award is to recognize efforts to ensure mission accomplishment and protection of human health through implementation of environmental management systems in the areas of environmental planning, waste management, and safe drinking water.

### Industrial Installation

#### Fleet Readiness Center East, North Carolina

Fleet Readiness Center (FRC) East's Industrial Environmental Program Division includes air, hazardous waste, solid waste/recycling, and water focus areas. With a commitment to continual improvement, these programs ensure compliance with applicable environmental regulations and seek opportunities to reduce environmental impact while improving fleet readiness. Examples of FRC East's environmental accomplishments include air pollution control, water quality monitoring, water conservation efforts with education programs, diversion of more than five million pounds of recyclable material away from landfills, conservation of over one million gallons of gasoline, reduction of approximately 16 million pounds of greenhouse gases, and construction of its first Leadership in Energy and Environmental Design (LEED) certified project.

#### Naval Submarine Base Kings Bay, Georgia

Naval Submarine Base (NSB) Kings Bay consists of 16,000 acres including 4,000 acres of unspoiled coastal marsh and 10,000 acres of indigenous

wildlife habitat actively managed under their Integrated Natural Resources Management Plan (INRMP). Objectives of NSB Kings Bay’s environmental program include complying their mission of supporting the warfighter through a proactive approach towards environmental management and conservation. The degree to which NSB Kings Bay attains these objectives is exemplified by their EMS. NSB Kings Bay’s EMS evaluates and implements continual improvements to processes, plans, and equipment, and incorporates environmental management and conservation into planning, decision-making, and business practices. Accomplishments of NSB Kings Bay’s environmental program include rare/threatened/endangered species monitoring, erosion and sedimentation control, habitat restora-

tion, and waste minimization, including a 45 percent reduction in hazardous waste, a 25 percent reduction in disposal cost, and a 7.5 million pound reduction in solid waste entering the landfill.

**Naval Weapons Station Seal Beach (including detachments in Corona and Fallbrook, California)**

Naval Weapons Station (NAVWPNSTA) Seal Beach, California and its detachments—located in Corona and Fallbrook, California—provide weapons storage, loading of ready-for-use ordnance, maintenance, weapons systems assessment, and support to ships of the United States Pacific Fleet, U.S. Coast Guard vessels and Marine Corps units stationed afloat and ashore. Natural resources stewardship for approximately 14,000 acres, including numerous endangered and sensitive habitats, has heightened leadership focus on sustainability. NAVWPNSTA Seal



Gopher tortoises are a keystone species on NSB Kings Bay—many other species depend on gopher tortoise burrows for habitat and refuge. The eastern gopher tortoise population is being considered for federal listing as an endangered species. The western gopher tortoise population is currently listed.



Volunteers work during a National Public Lands Day event at NAVWPNSTA Seal Beach, planting native shrubs and flowers at the Seal Beach National Wildlife Refuge at the station. In total, volunteers planted more than 500 shrubs on the installation, providing improved habitat for a wide range of species.

Beach has integrated its EMS program throughout all installation functions, and sustainability goal setting is intertwined with strategic planning. Accomplishments include a reduction of electrical energy consumption by 13.2 percent, a reduction in water usage by 41 percent annually, and partnerships with community organizations and resource partners on a number of volunteer activities, including three National Public Lands Day events, habitat clean-ups, and monthly tours.

### Overseas Installation

#### Commander, Fleet Activities Yokosuka, Japan

As a leader in environmental protection in Japan, Commander, Fleet Activities, Yokosuka (CFAY) partners with U.S. and Japanese officials to meet or exceed stringent U.S. and Japanese government environmental protection standards. With strong support from military and civilian personnel, base residents, and personnel living and working in the cities of Yokosuka, Zushi, and Yokohama, CFAY has successfully developed and maintained partnerships crucial to the success of its environmental program. As the first Navy base in Japan to fully implement an EMS in accordance to the International Organisation for Standardization (ISO) 14001 standard, CFAY has set and met EMS goals, objectives, and targets by developing an effective and robust cross functional team. Dedicated to continuous improvement, CFAY has successfully doubled the amount of material recycled, increased solid waste diversion rate by 45 percent, and reduced the amount of hazardous waste disposed of by 36 percent (over 500,000 pounds annually) since FY 2008. CFAY has also



CFAY gives tours to promote environmental awareness and educate the community on how the Navy protects the environment. In FY 2010, CFAY started providing tours of the newly constructed environmentally friendly cogeneration plant for the general public.

reduced petroleum, oils, and lubricant spills by 85 percent since FY 2009, and successfully integrated the community into environmental management through various outreach events and awareness programs, including cultural and historical resource tours, environ-

mental/safety fairs, base beautification events, and natural resource sustainment events.

#### Navy Region Center Singapore, Singapore

U.S. Navy Region Center, Singapore's (NRCS) mission is to lead and manage the overall coordination of military services in Singapore.



This informational booth was set up on Earth Day 2010 to teach school children about waste reduction and pollution prevention efforts at NRCS.



During Earth Week celebrations at NSA Bahrain, more than 400 personnel from the Coalition forces, Host Nation, and DoD Dependent Schools children participated in the week long activities that included tree planting and base cleanup. Over 65,000 pounds of debris were collected.

In FY 2009, NRCS became the first command in the Navy to achieve EMS conformity with zero deficiencies. With all the checks and balances implemented, the system is constantly finding ways to reduce operational impacts. Examples of the program's achievements include a reduction of energy consumption by 13 percent, a reduction of shore-side hazardous waste disposal by 42 percent in FY 2009 and 49 percent in FY 2010, achievement of a recycling/composting rate of nearly 311 pounds per person per year, and a significant increase in spill response capability.

### U.S. Naval Support Activity Bahrain, Bahrain

As the only permanent frontline shore base in the southwest Asia area of operations, Naval Support Activity (NSA) Bahrain is the epicenter of all support operations in the turbulent Middle East. The environmental team has consistently achieved environmental excellence utilizing scarce resources, and has dedicated their organization to improving environmental quality at NSA Bahrain and surrounding communities. Examples of the team's achievements over the past two years include responding to more than 1,400 service calls supporting 148 U.S. Navy and coalition ships, processing more than 4,000 55-gallon drums of shipboard-

used hazardous materials offloaded in Bahrain and the United Arab Emirates, and diverting an annual average of 1,000 tons of recyclables from the landfill.

### Small Ship

#### USS MOMSEN (DDG 92)

The USS MOMSEN (DDG 92), based out of the Pacific Northwest homeport of Naval Station Everett, Washington, is a proactive custodian of the environment, and strives to set the example for environmental stewardship throughout the Navy. MOMSEN does so by initiating

actions to conserve natural resources, protect historical and cultural properties, and prevent, control, and eliminate discharges that would create pollution. Such actions include restoring the ship's Oil/Water Separator—the primary method of ensuring that liquid discharges are scrubbed of pollutants—to full operation in order to prevent oily waste. MOMSEN also reduced fuel consumption by 500 gallons every hour through "single generator operations," and by as much as ten percent per day through "drift operations," which involves securing the main engines and allowing currents to push the ship as required.



The guided-missile destroyer USS MOMSEN strives to set the example for environmental stewardship throughout the Navy.  
*Mass Communication Specialist Seaman Jerine Lee*



A whale tail is spotted from the bridge of the USS STERETT. Marine mammal sightings are logged and identified, and operations are modified as necessary to avoid hurting the animals. The Protective Measures Assessment Protocol (PMAP) software is run prior to any exercise that could affect marine life.

### USS STERETT (DDG 104)

Based out of San Diego, California, the USS STERETT (DDG 104) is committed to environmental protection and safety, and continually strives to find new and innovative ways to help reduce the Navy’s impact on the environment. STERETT’s outstanding management and maintenance practices have contributed to many environmental accomplishments, including fuel conservation, marine mammal protection, the successful offloading and onloading of 2,750 hazardous materials items with zero discrepancies, zero accidental releases or ventings of Halon during FY 2010, zero fuel spills during 11 underway refueling operations, and zero refrigerant leaks in 2009 and 2010.

### USS THACH (FFG 43)

The USS THACH (FFG 43), based out of Naval Base San Diego, California, ensures each crewmember understands their personal environmental safety responsibilities and their duty to protect the oceans they sail upon. THACH’s environmental accomplishments include completing 25 at-sea and 18 in-port refueling evolutions without incident or spills, minimizing air emissions and increasing fuel efficiency by maintaining equipment in peak operational condition. The ship also protects marine mammals through the use of the PMAP software prior to any gunnery and sonar exercises to ensure all requirements and protections are satisfied, and managing hazardous material by utilizing the ship’s hazardous material inventory and control systems windows, which ensure that only the needed hazardous materials are kept onboard, and all materials used are expended.

### Sustainability

The purpose of this award is to recognize efforts to prevent or eliminate pollution at the source, including practices that increase efficiency and sustainability in the use of raw materials, energy, water, or other resources.

#### Individual/Team

#### Fleet and Industrial Supply Center Pearl Harbor Environmental Sustainability Team, Hawaii

The Fleet and Industrial Supply Center Pearl Harbor (FISC Pearl) Environmental Sustainability Team, whose



780 Sailors onboard the USS THACH conducted a refueling during the most recent Northern Arabian Gulf deployment. The refueling was a success with no fuel spilled.



LT Jason Jackson, paints a message at one of the 159 storm drains in the FISC Pearl area during Earth Day 2010. The message reads "Dump No Waste— Goes to Pearl Harbor" and serves as a reminder to everyone that Hawaii's fragile water resources need to be protected.



FRCSE recycled more than 3,600 pounds of bottles and cans, 1,800 pounds of newspaper and more than 18,000 pounds of computer and office mix paper in 2010.

members are from FISC Pearl and the Naval Facilities Engineering Command (NAVFAC) Hawaii, identified process changes and technical upgrades to execute Executive Orders, DoD plans and other documents relating to environmental sustainability to shape a starting point for the FISC Pearl sustainability program. This initial two years set the foundation for future successes in reducing energy and water consumption, recycling, eliminating toxic and hazardous waste from the workplace, disposing of electronic products in an acceptable way, and sustainable transportation through alternative fuels and vehicle fleet optimization.

#### Fleet Readiness Center Southeast, Florida

The Fleet Readiness Center Southeast (FRCSE) considers continuous improvement through compliance audits and training as vital to its future and key to mission sustainability. The environmental team attributes its success to adhering to the requirements of ISO standard and developing good relationships with stakeholders. Examples of the environmental team's accomplishments include improved air quality and reduced ground-level ozone (smog) through the use of less toxic solvents and green alternatives of the hazardous air pollutant Toluene, recycled nearly 241 tons of material and saved nearly \$2.73 million through the reuse of JP-5 fuel, and reduced the amount of hazardous waste from FRCSE industrial wastewater treatment plants by reducing point source generation of waste, implementing more cost effective operating procedures for water treatment, and leverage existing capability of the Naval Facilities Public Works Department. This operational change eliminated more than



This E-2C was the first such aircraft to have the entire exterior of the aircraft primed with Deft's non-chrome primer.

600,000 pounds of hazardous waste, provided a disposal cost avoidance of nearly \$480,000, and provided additional energy and maintenance cost savings associated with these operational changes.

**PMA-231 Environment, Safety, and Occupational Health Team, Maryland**

The Naval Air Systems Command (NAVAIR) Program Manager Air (PMA) – 231 Environment, Safety, and Occupational Health (ESOH) team has maintained fleet readiness while dramatically reducing the environmental footprint of the E-2 platform through effective integration of ESOH principles into the development, manufacture, use, maintenance, and disposal of its aircraft systems. The ESOH team works closely with a multi-disciplinary sustainability team consisting of chemical, material, safety, and environmental engineers, and production personnel to provide solutions to process activities with significant environmental benefit. Examples of the ESOH's team's success include implementing smart building management systems, thermostat regulation, and an aggressive light

replacement program at the St. Augustine Manufacturing Center, reducing the E-2D's assembly site energy consumption by 6.4 million kilowatt-hours; substitution of two hazardous material-containing adhesives used on the E-2 platform with non-hazardous

alternatives, eliminating the use of 3,000-square feet of formaldehyde-based and 200-gallons of toluene-based adhesives annually; and implementation of a Halon—a known ozone depleting substance—alternative ahead of schedule, preventing the

retrofit of three aircraft and saving 100-pounds of Halon.

**Non-Industrial Installation**

**Naval Base San Diego, California**

Naval Base San Diego (NBSD) has significantly reduced its impact of operations on the environment. The introduction of new ideas and equipment which reduce waste, capture pollutants, and otherwise mitigate environmental impacts at NBSD has led to regulatory compliance in all areas of NBSD activities. In 2010, NBSD funded and executed numerous projects to reduce water and energy use. These projects are achieving a positive return on investment through reduced grounds contracts and reduced energy consumption. In addition, leading by example to chart the way ahead toward a greener base and environment, NBSD hosted the first Navy



In 2010, NBSD funded and executed numerous photovoltaic projects to reduce energy use. These projects are achieving a positive return on investment through reduced energy consumption.

Region Southwest Environmental Green Summit. Featuring both Navy and private enterprise representatives, the Summit provided a venue to share information on a wide array of conservation, green projects, and Navy-private enterprise partnerships.

### Naval Station Great Lakes, Illinois

Naval Station Great Lakes is a leader in managing a fleet of green vehicles, using alternative fuels, providing environmentally-friendly laundry services, employing sustainable construction practices, and leading energy efficiency initiatives. These initiatives resulted in a reduction of regulated air emissions by 85 percent, a reduction of energy intensity by 29 percent, an increase of solid waste diversion by 57 percent, and an increase of recycling by 1,107 tons. An effective EMS focused the command's energy, environmental, and mission operator teams on significant environmental aspects and critical objectives. The installation has forged partnerships with external agencies, industry, academia, environ-



The installation of new energy efficient air conditioners at NAVSTA Pearl's Building 1770 is saving more than \$92,000 annually.

mental groups, and the local community to sustain effective environmental stewardship programs, build support for the Navy mission, and facilitate technology transfer. These efforts resulted in substantial pollution reductions, conserved energy and natural resources, and have driven a pursuit of clean energy initiatives to meet future fleet facility needs.

### Naval Station Pearl Harbor, Hawaii

Naval Station Pearl Harbor (NAVSTA Pearl) is located in the Hawaiian Islands on the island of Oahu. With Hawaii's complete dependence on imported oil for energy generation, energy conservation and alternative energy initiatives have taken on added importance. NAVSTA Pearl has developed an impressive alternative energy and resource conservation program that has implemented several key initiatives. These initiatives, including photovoltaic initiatives, fuel reclamation, hazardous materials substitution, and facility energy audits, will conserve energy and water, provide an annual avoidance of approximately 5,667 barrels of oil and 3,118 tons of CO<sub>2</sub> emissions, create an additional source of fuel, and reduce the Navy's waste oil and hazardous material disposal and procurement costs.



Mark Schultz, environmental director for NAVFAC Midwest, explains to students at North Chicago Community High School about electric vehicles and other environmentally friendly means of transportation used by the Navy during an Environmental Science Olympics community outreach event.

### Environmental Restoration

The purpose of this award is to recognize efforts to protect human health and the environment by cleaning up

identified DoD sites in a timely, cost-efficient, and responsive manner.

### Installation

#### Hunters Point Naval Shipyard, California

The Navy's mission at the Hunters Point Naval Shipyard, located in San Francisco, California, is to cleanup shipyard contaminants to make the property available for transfer and productive reuse. The Navy operated the 936-acre shipyard from 1939 to 1974, and in 1989 it was designated a superfund site. The Navy uses the U.S. Environmental Protection Agency (EPA) TRIAD concept to streamline data-gathering and decision-making during investigation and cleanup. Innovative cleanup technologies are tested and those deemed most effective are used to address the contamination. The Navy works diligently to involve the regulatory agencies and redevelopment agencies to expedite the restoration. The Navy and regulatory agencies have used time-critical removal actions to remove waste from the Bay shoreline. In addition, the Navy partners with existing community programs, such as Young Community Developers and City Build, to provide vocational training and the opportunity to take part in the shipyard cleanup.

#### Joint Expeditionary Base Little Creek-Fort Story, Virginia

On 1 October 2009, Hampton Roads' first Joint Base, Joint Expeditionary Base Little Creek-Fort Story (JEBLCFS), was established, comprising former Naval Amphibious Base Little Creek and the former Army Garrison at Fort Story. The Navy Environmental Restoration Program (NERP) at JEBLCFS successfully balances the challenge of restoring environmental sites and protecting human health and the environment with the



Excavation activities in the section of Bousch Creek adjacent to the NSN flight line. Excavation was completed from the top of the bank with a long-reach excavator to avoid impacting established vegetation along the banks. The depth of excavation was measured using a man lift located on the top of bank to avoid having workers in the water.

facility's limited space, continued growth, and mission need for usable land. The NERP does so by implementing innovative, site-specific remedial actions. The Navy continually collaborates with representatives of EPA, Virginia Department of Environmental Quality, and other DoD entities to evaluate the needs of the community, the NERP, and the mission, to apply economical, environmentally sound, and sustainable methodologies to issues under examination. These efforts have resulted in over \$2 million cost savings and have made approximately 1,864 acres available for reuse. Other accomplishments include achieving no further action status for 13 sites, establishing remedy in place for two sites, completing an action decision document for two sites, developing a feasibility study at one site, and concluding the Military Munitions Response Program for JEBLC.

#### Naval Station Norfolk and Naval Support Activity Norfolk, Virginia

Naval Station Norfolk (NSN) is the world's largest Naval installation, and

is one of 66 DoD installations located within the Chesapeake Bay watershed, the nation's largest estuary. The Naval Support Activity Norfolk (NSAN) Headquarters Complex is located adjacent to NSN to the south. Due to the size of NSAN and its close proximity to NSN, all installation restoration (IR) sites located at the installation are managed as part of the NSN restoration program. NSN and NSAN achieved an unparalleled partnership among the Navy, EPA, and Virginia Department of Environmental Quality. Throughout the partnering process, site-specific project status updates led to expedited document reviews and approvals, and achievement of major milestones in both Navy Remedy in Place and EPA Installation Construction Completion. This facilitated long term site management strategies that also provided for the beneficial reuse of multiple IR sites at NSN, including over 22 acres of re-usable outdoor recreation space, 1,400 parking spaces on 14 acres, and approximately a quarter of an acre of reusable warehouse space.

### Environmental Excellence in Weapon System Acquisition, Small Program

The purpose of this award is to recognize efforts to incorporate environmental, safety, and occupational health requirements into the weapon system acquisition program's decision-making process.

#### Individual/Team

#### Battle Force Tactical Trainer In-Service Engineering Agent Design Team

Ten obsolete Battle Force Tactical Trainer (BFTT) systems were reutilized at Combat Direction Systems Activity, Dam Neck (CDSA DN) in FY 2010. The BFTT In-Service Engineering Agent (ISEA) design team has incorporated ESOH objectives throughout the product lifecycle. The BFTT systems were processed for reutilization, preventing several hundred pounds of metal from being discarded and saving an estimated 8,500 kilowatt-hours of energy—approximately enough to power an average U.S. residential

household for nine months. Additionally, BFTT ISEA design team's reutilization effort significantly reduced the amount of toxic material introduced with system deployment, decreasing both personnel hazard and the carbon footprint by reducing the amount of power required to operate the system. The training systems are embedded in surface combatant ships to provide combat systems training for Sailors worldwide. The progress made during the award period includes completion of six formal technical reviews, where several ESOH system risks were identified and addressed. Additionally, eight system certification events were conducted that included ESOH risk mitigation, and six instances of concurrence by the Weapon Systems Explosive Safety Review Board for BFTT System Deployment.

### Environmental Planning

The purpose of this award is to recognize outstanding environmental planning for the Navy.



USFF held a public hearing so that Navy officials could explain marine mammal mitigation protection programs to interested community members.

#### Team

#### East Coast Range Complex Environmental Planning Team, Virginia

The U.S. Fleet Forces (USFF) East Coast Range Complex Environmental Planning Team is composed of Navy and contractor personnel with wide-ranging expertise in naval operations, natural resources, and environmental planning and compliance. In order to produce high quality Environmental Impact Statements (EIS) for each of the three east coast range complexes on a compressed schedule, the team had to accurately describe training requirements spanning 100,000 nautical square miles of ocean area, address all applicable environmental laws and regulations, collect and interpret best available science, create methodologies to predict environmental effects, and compile it all into scientifically accurate and readable studies. The team successfully completed three East Coast Range Complex final EIS and associated marine species regulatory permits, providing total environmental



Electronics Technicians Randy Constant and Steve Farmer conduct single board computer testing in the Integrated Training Systems Laboratory Complex at CDSA DN to determine the reuse viability of recovered parts, in support of the BFTT ISEA design teams recycling and refurbishing efforts.

coverage for live training along the east coast with no loss of current capabilities. In addition, the team continued integrating operations into the environmental planning process, developed groundbreaking responses to emerging natural resource issues during late stages of the environmental planning process, dealt with last minute regulatory actions, and supported new mine warfare capabilities on the east coast.

#### **Southern California Range Complex Environmental Planning Team, California**

The success of the Southern California Training Range Complex (SOCAL) environmental planning and compliance project was based on a highly innovative and proactive approach that provides the Commander, United States Pacific Fleet (COMPACFLT) the ability to use sonar in the accomplishment of its sea-based, sonar training mission while continuing to protect marine resources. The SOCAL project ultimately developed a long-term solution to allow Sailors, Marines, and Special Forces to conduct critical training in one of the Navy's premier and irreplaceable training complexes. The SOCAL environmental planning project was exceptionally managed by

Alex Stone who led a diverse, interdisciplinary governmental and contractor team—all in support of one of the most highly visible, operationally critical, environmentally complex and legally contentious environmental planning efforts in the Navy. This team's efforts supported COMPACFLT's goal to continue to train while adhering to protective and natural resources measures that also simultaneously ensure training integrity. The team also effectively addressed environmental concerns for critically endangered species and a myriad of other sensitive marine and terrestrial species along the coast of Southern California.

#### **Undersea Warfare Training Range Environmental Planning Team, Virginia**

The Undersea Warfare Training Range (USWTR) environmental planning and compliance initiative was based on a highly innovative and proactive approach that will success-



The USS PREBLE (DDG 88) fires a surface-to-air missile while conducting missile-firing exercises on SOCAL.

*U.S. Navy photo by Photographer's Mate 2nd Class Juan Eduardo Diaz*

fully give USFF the ability to conduct littoral Anti-Submarine Warfare (ASW) training while continuing to protect marine resources. Specifically, the USWTR initiative ultimately developed a long-term solution to allow Sailors and Airmen the capability to maintain proficiency in littoral ASW skill sets. The team's efforts enhanced future ASW training effectiveness through successful environmental planning of USWTR, which will provide USFF the opportunity to train in situations that replicate areas where they operate. 📍

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