



# *FRC*SW **ALMANAC**

Delivering Cost-Wise Readiness

"Fix it Once, Fix it Right, Fix it On Time"

Published for members of Fleet Readiness Center Southwest

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## Gas Turbine Engine **LM2500** Workhorse of Naval Propulsion

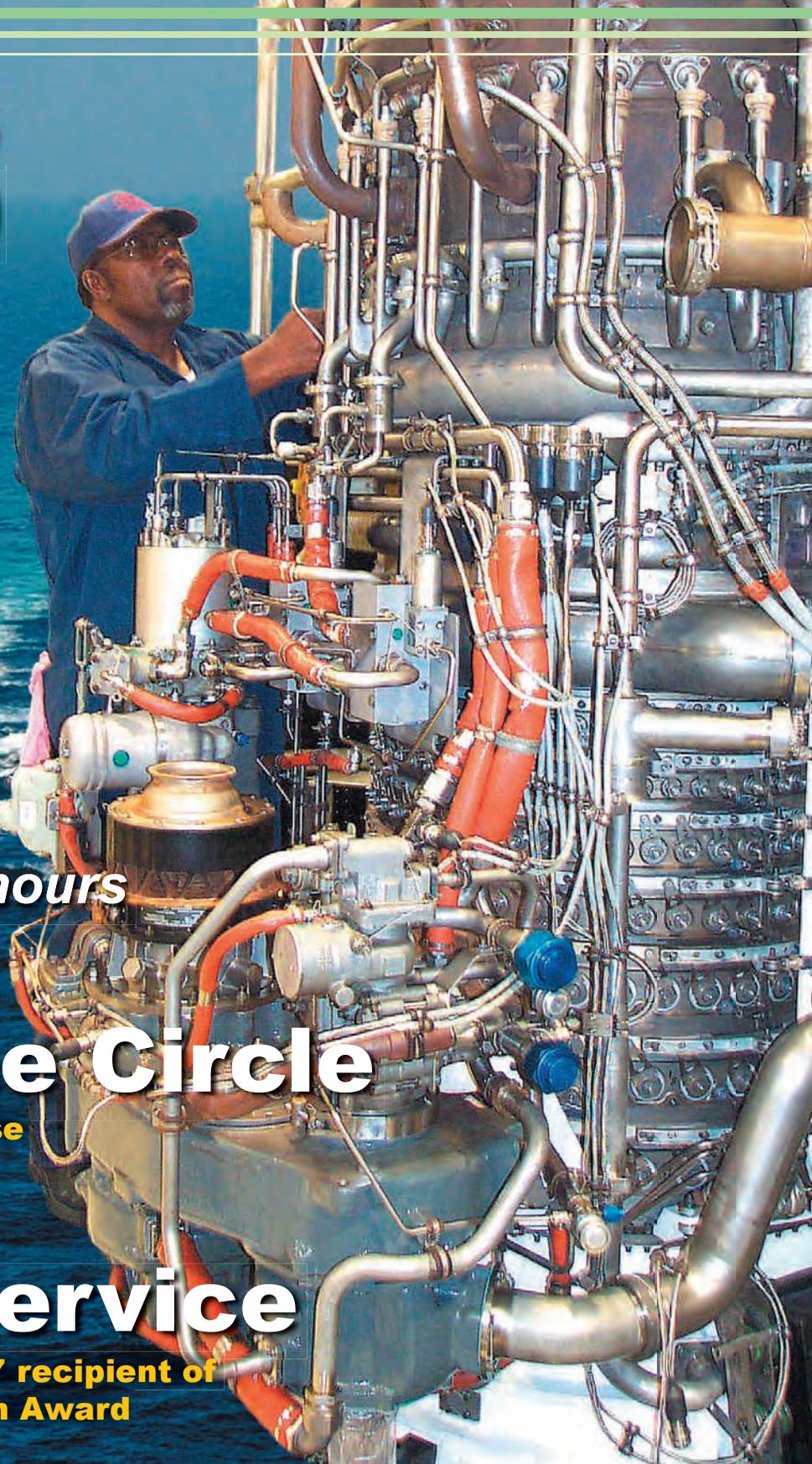
Returning to FRCSW for repairs  
**20 years & 26,000 hours**  
between overhauls

## **Closing the Circle**

**FRCSW receives White House  
environmental award**

## **Spirit of Service**

**FRCSW Sailor is Navy's 2007 recipient of  
prestigious American Legion Award**





Fix it once,  
fix it right,  
fix it on time.

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FRCSW Mission: FRCSWs produce relevant quality airframes, engines, components and services to meet the Naval Aviation Enterprise's (NAE's) aircraft Ready for Tasking entitlements at improved efficiency and reduced cost. In order to perform to entitlement requirements, FRCSWs provide seamless integrated off-flightline repair, in-service industrial scheduled inspections/mods, and deployable Sea Operational Detachments.

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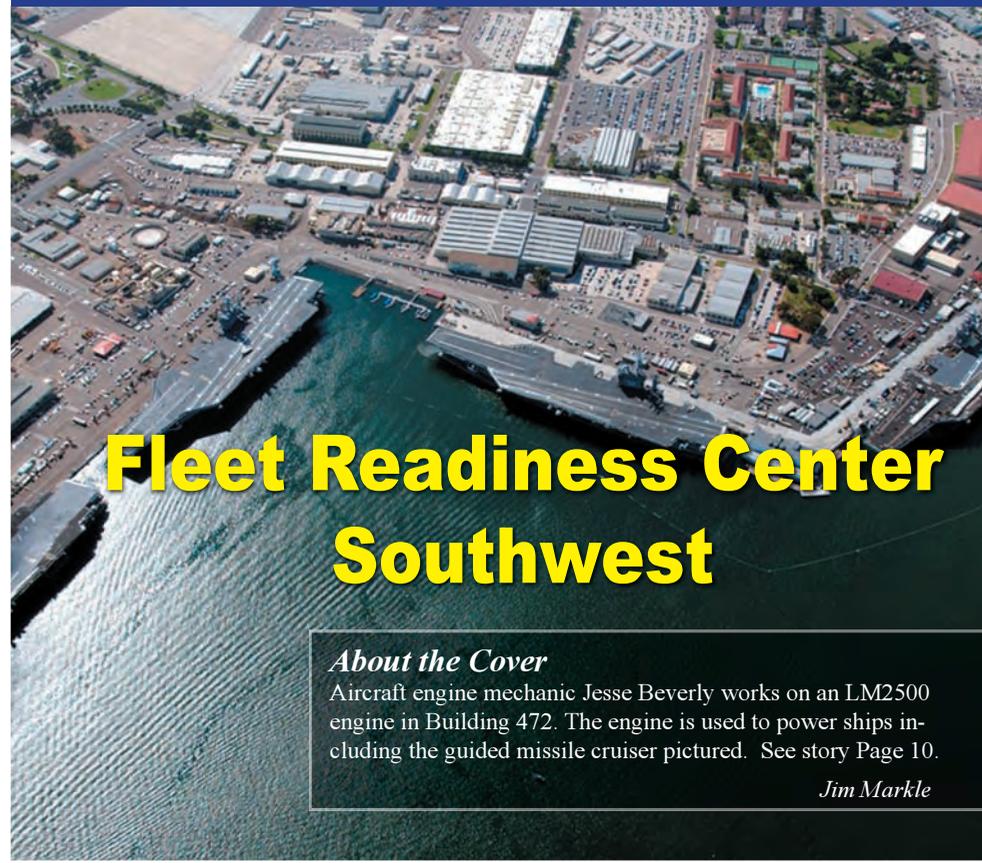
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## Fleet Readiness Center Southwest

### *About the Cover*

Aircraft engine mechanic Jesse Beverly works on an LM2500 engine in Building 472. The engine is used to power ships including the guided missile cruiser pictured. See story Page 10.

*Jim Markle*

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(May 9, 2007) - E-2C Hawkeyes assigned to the "Liberty Bells," of Carrier Airborne Early Warning Squadron (VAW) 115 perform a formation flight in front of Mount Fuji, Japan. VAW-115 is one of the nine squadrons assigned Carrier Air Wing (CVW) Five, which is assigned to *USS Kitty Hawk* (CV 63). U.S. Navy photo by Mass Communication Specialist 3rd Class Jarod Hodge.

# White House Award Honors FRCSW Environmental Efforts

By Raymond Paulson  
FRCSW Environmental  
Protection Office

In a Washington, D.C. ceremony in June, Fleet Readiness Center Southwest (FRCSW) earned the applause of the Office of the Federal Environmental Executive as the command received the 2007 White House Closing the Circle Award for its environmental accomplishments.

The Closing the Circle awards recognize the efforts of federal facilities which generate significant contributions or accomplishments in environmental stewardship.

FRCSW was one of 17 winners from a field of nearly 200 nominations covering a myriad of environmental issues including Environmental

Management System (EMS), energy conservation, green procurement, pollution prevention, and recycling. The award category presented to FRCSW was for EMS at a Department of Defense (DoD) facility. The command was specifically cited for “continuous environmental improvement for sustainability.”

FRCSW was the first federal facility to register to the International Organization for Standardization (ISO) 14000. The ISO 14000 promotes the development and implementation of international standards for products and environmental management issues and is a series of voluntary standards in the environmental field.

The “Plan, Do, Check, Act” principles of the ISO 14001 EMS creates strategic business units which evaluate

and identify environmental impacts in the context of the unit’s objectives. In turn, their findings are reviewed by an Environmental Improvement Team (EIT) comprised of subject matter experts who forward their recommendations to the Environmental Program Office (EPO) and upper management for budgetary decisions. Project plans are stored in a shared database and made available to all departments involved. The EPO also uses the EIT as a process action team to identify and address pollution prevention initiatives.

To achieve the desired environmental improvement goals, FRCSW used the EMS approach, “Zero Discharge” Pollution Prevention focus categories for sustainability which are applicable to any process, equipment, building, governmental or commercial organization. These categories may be applied to any Life Cycle Assessment stage (cradle to grave) for various projects including materials acquisition, manufacturing, in-use, reuse and treatment, recycling and disposal.

FRCSW’s environmental program merges energy conservation with pollution prevention measures in an effort to maximize energy conservation and renewable energy use while reducing pollution. Those initiatives include using existing monies for “green procurement” (environmentally-friendly products) for office and industrial supplies where feasible; recycling to reduce costs; adapting ISO 14001 concepts; and reviewing all solutions with an EIT. The goal is zero discharge for all pollution.

“Being proactive is the key to our successful environmental program. The strategic location of FRCSW means our industrial processes are collocated with the five-star resort community of Coronado. We plan well in advance to deploy the best



Fleet Readiness Center Southwest (FRCSW) Commanding Officer Capt. Fred Cleveland holds the White House Closing the Circle Award and is joined by Commander, Fleet Readiness Center Rear Adm. Michael Hardee. With them are FRCSW staff members (from left) environmental engineer Raymond Paulson, Environmental Planning and Compliance Office Supervisor Bob Espinosa, and Industrial Operations Compliance Department Director Jose Jimenez. Award presenters (from right) are Deputy Assistant Secretary of the Navy (Installations and Facilities) Wayne Arny, Assistant Deputy Undersecretary of Defense (Installations) John Williams, and Federal Environmental Executive Ed Piñero.

Robert Turtill

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# Sailor to Receive American Legion Spirit of Service Award

By Jim Markle

Aviation Structural Mechanic Second Class (AM2) Gaurav R. Patel was selected to be the Navy's recipient of the prestigious American Legion Spirit of Service Award.

Fleet Readiness Center Southwest (FRCSW) Commanding Officer Fred Cleveland nominated Patel for the award, which honors one member from each of the services who exemplifies the spirit of volunteerism. Patel will accept his award during the American Legion's national conference in August in Reno, Nev.

"This is a special honor. I know this great Sailor will represent the many others in our Navy very well," Capt. Cleveland said.

"Petty Officer Patel's nomination package read like a book on the American Dream. Born and raised in India, came to the United States in 1996, joined the Navy in 2000 and became a citizen in 2003. His contributions to his country, Navy and community are just awesome and reflect greatly on his Honor, Courage and Commitment. He is a well-deserving warrior who represents the best of what the Navy and America have to offer," said FRCSW Command Master Chief AFCM John Roberts.

Patel tirelessly devotes his time to improving the Navy, his career and community. The 25-year-old Sailor, an AIRSpeed Greenbelt, is team co-leader moving Aviation Intermediate Maintenance Department's (AIMD) 500 division from Building 1451 to buildings 250 and 472 as part of the integration with AIMD.

Patel may also be found working on the FRCSW Command Retention and

Command Equal Opportunity teams. Or he may be assisting the Command Assessment Team, the Emergency Reclamation Team, or, as its team leader, he could be perfecting the precision movements of the 12-member Command Color Guard. Or, as a last resort during working hours, he may be found leading a workout as the AIMD Divisional Physical Readiness Training coordinator.

Patel was offered a full scholarship to Northeastern University after graduating high school in Taunton, Mass., in June 2000. He said that he was initially interested in chemical engineering. But undecided to pursue the subject, he discovered aviation through the Navy instead.

"I was living on the base here – I was an airman back then – my friends were getting into trouble. The way I



Commander, Fleet Readiness Center Rear Adm. Michael Hardee (left) is joined by Fleet Readiness Center Southwest Commanding Officer Fred Cleveland in presenting AM2 Gaurav R. Patel a letter of notification as the Navy's recipient of the American Legion Spirit of Service Award. Patel also received the Navy and Marine Corps Commendation Medal for his many leadership roles within Aviation Intermediate Maintenance Department.

Joe Feliciano

During any break there's a good chance Patel's reading or studying for one of two master's degrees he plans to complete next March. He earned a bachelor's degree in Professional Aerodynamics from Embry-Riddle University October 2006.

stayed out of trouble was by doing something else; I'd go to school or on the weekends, I'd volunteer to keep myself busy," he said.

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# AIMD Sailors, Artisans Completing Composite Metal Shop Merge

By Jim Markle  
Photos by Joe Feliciano

**T**welve Aviation Intermediate Maintenance Department (AIMD) Sailors reported to the aircraft surfaces metal shop in Building 250 at Fleet Readiness Center Southwest (FRCSW) in June to produce their first parts working side-by-side with civilian artisans as the merge of AIMD to FRCSW continues.

“They (Sailors) are only authorized to perform certain levels of repairs, so where their repairs stop, the artisans’ picks up,” Compagnon said.

Previously, AIMD sent work it was unable to perform, or beyond capability of maintenance (BCM), to other facilities. Compagnon said much of that work involved the H-60 Seahawk helicopter, and many BCM components were sent to Fleet Readiness Center East (Cherry Point, N.C.). Now, he said, the work can be done here.

“We’ll turn it around and fix it in no time at all since Sailors and artisans are working side-by-side,” concurred Aviation Maintenance (AM) Senior Chief Petty Officer Joel Balaoing, leading maintenance control chief. “BCM will be interdicted through the depot’s technical know-how. Our objective is zero BCM.”



*Above:* AM2 Francis Santarin, who works with Composites in Building 250, removes corrosion from a panel.



*Right:* Composite work leader Mark Poblete discusses the repair of an F/A-18 leading edge flap with AS2 Janelle Card, AIMD team leader.

Because the move will eliminate dual facilities and equipment as AIMD relocates some of its resources from Building 1454, the Navy can potentially save millions of dollars annually.

“It’s a tremendous opportunity. This will reduce costs and increase turnaround time to our customers, the warfighters,” said Jim Compagnon, FRCSW Composite Production superintendent.

By working with FRCSW artisans, Sailors may expand their knowledge, and so, increase their effectiveness in the fleet.

AM2 Glen Farnsworth, AIRSpeed Black Belt and integration facilitator, said completing the merge will be a “very strategic process” accomplished through a series of Lean events. As existing common procedures are examined, like quality assurance and production control, the goal will be to

*Continued on page 17*

# Sailors Keeping It Cool In Middle East

By Jim Markle

Six Fleet Readiness Center Southwest (FRCSW) Sailors are lending their expertise in air conditioning and related equipment to make life a little easier for war fighters at Aircraft Intermediate Maintenance Department (AIMD) detachment sites in Bahrain.

Aviation Support Equipment Technician (AS) Petty Officer 1st Class Nicholas Rosman and AS2s Carissalina Block, Edward Cook, and Ronny Hawkes and ASAN William Davis from North Island joined AS3 John Burton from Point Mugu for three months' Temporary Additional Duty (TAD) to the Middle East.

The Sailors departed FRCSW in June and are scheduled to return in September.

They are working in areas where mean temperatures exceed 105 degrees. "During the summer, air conditioners and power carts get a real workout, and huffers (auxiliary power units) are a close second. Six additional techs made our lives much better last summer," stated Lt. Cmdr. Doug Sullivan, AIMD Bahrain officer-in-charge.

AIMD Bahrain support sites include Air Base Al Udeid in Qatar and Al Asad Airfield and Ali Air Base in Iraq.

For the two youngest Sailors, Block, 22, and Davis, 21, gaining experience stood as their motivation to volunteer for this assignment. Block added she hopes to visit Kuwait, if possible.

"This is a team effort and it's my job to be where I'm needed. I'm excited to go and glad I can help out," said Burton. He had previously been to the Middle East and visited Dubai (one of seven emirates of the United Arab Emirates). "I liked the culture and people," he said, "so when I had a chance to do something like this I went for it."

No stranger to answering the call for TAD volunteers, Cook previously served in the auxiliary security force at White Beach Naval Facility in Okinawa, Japan, following

9/11. He's also an Operation Iraqi Freedom and Operation Enduring Freedom veteran and was stationed aboard *USS Harry S. Truman* (CVN 75). Cook said AIMD Bahrain shore duty would provide him the



opportunity to apply his skills in a different environment, as well as to see another part of the world.

Also an Iraqi Freedom veteran, Hawkes served aboard *USS Belleau Wood* (LHA 3) during the conflict. "I want to help out and give someone else a break," he said as to his reason for volunteering.

Rosman said this will be his fourth assignment to the Middle East.

He said he volunteered to "Get the job done right."

"The folks who are selected should know that every maintenance action they perform over here will make an impact on the folks on the ground, in harm's way," Sullivan said. 

AS1 Nicholas Rosman points out components of an air conditioning unit while AS2s Carissalina Block, Edward Cook, Ronny Hawkes, AS3 John Burton and ASAN William Davis look on. All six Sailors volunteered to deploy to the Middle East in June.

Joe Feliciano

# Smile!

## Candid Cameras Keep Watchful Eye

By Jim Markle

**B**oasting 73 continuously operating outdoor cameras, Fleet Readiness Center Southwest's (FRCSW) latest tool to beef up force protection also enhances security with video recording capability.

The Joint Perimeter Surveillance Command and Control System (JPSC2) monitors all FRCSW buildings and parking lots and is designed to protect personnel and property, according to Industrial Security Officer Geoffrey Munsell. All JPSC2 cameras are mounted on the exterior of buildings. None are indoors and no plans exist to monitor the interior of FRCSW buildings.

Fully operational since June, the system operates in "real time" viewing, (not tape delayed), and uses 59 stationary and 14 pan-tilt-zoom (PTZ) cameras. PTZ cameras allow for 360-degree view including up and down and zoom-in capability.

FRCSW Physical Security Specialist Richard Sanders serves as JPSC2 administrator in Building 94 and uses two 50-inch digital light projection monitors to display the views from the system's cameras. A third, smaller monitor controls the system and displays a static satellite image of FRCSW.

Cameras are identified as icons. To activate a camera's view, Sanders clicks the corresponding icon and drags the image to one of the larger monitors for a more detailed observation.

Sanders said parameters for each camera may be modified as required. "If a person is walking on the base in our (FRCSW) area, data is fed into this computer that will identify the size and speed of that object. Based on that size and speed, the database determines whether it's a vehicle being driven or a person walking. Those parameters have been put into the system so that if a bird flies through the camera's view, it doesn't track it because it's either traveling too fast or too small to be a vehicle," he explained.

Individuals of interest may be tracked in highlighted, colored boxes and may be identified easier. However, the monitors display in black and white because JPSC2 software requires a black and white image because of the difference in the images' pixels. The cameras do have color capacity, but if used, would lose their tracking ability.

System software enables Sanders to easily photograph individuals and

vehicles. Further, he may enlarge and sharpen the photo resolution to achieve a clear, definitive image. "Say we have a terrorist suspect, for example. We can get the photo and give it to the FBI so they can compare that person to their databases. And the same thing applies to a vehicle's license plate. We can zoom in on the plate and identify the vehicle's registered owner," he said.

A similar system successfully identified four suspects July 22, 2005, following the London subway bombings which killed 55 and injured 700. Locally, the U.S. Border Patrol, U.S. Coast Guard, and the Space and Naval Warfare System Center also use monitoring systems to augment their physical security programs.

Because the JPSC2 operates 24/7, cameras in selected areas are programmed to react to motions. These areas are called "alarm zones." This way Sanders said, the system essentially monitors itself. "If somebody pulls a vehicle into the back parking lot of Building 90 at 4 a.m., for example, the camera will be activated and will videotape the activity. So, if someone broke into a vehicle, we

*Continued on page 17*



Physical Security Specialist Richard Sanders demonstrates the capability of the Joint Perimeter Surveillance Command and Control System as a pedestrian passes near an alarm zone. The recently installed security system greatly enhances the command's protection capability.

*Joe Feliciano*

# Industrial Production Support Department Aces ISO 9001:2000

By Jim Markle

For the second consecutive year, Fleet Readiness Center Southwest (FRCSW) Industrial Production Support Department's (IPSD) Plant Technical Services, Plant Program Support Services and Plant Maintenance Services divisions in buildings 90 and 379 flawlessly passed their recent International Organization for Standardization (ISO) 9001:2000 external audit.

The ISO 9001:2000 outlines procedures targeting quality management practices. Customer requirements and satisfaction, regulatory requirements, and ongoing performance improvement are areas of an organization which may be audited. Audits, external and internal, are performed annually to ensure procedural effectiveness and consequent modification, if required.

Auditors from Smithers Quality Assessment targeted four IPSD ISO 9001:2000 areas: the Quality Management Policy Manual, product management maintenance procedures, design, process and internal audits, contracts and maintenance representatives.

"It's the auditor's choice as far as what they look at. Lots of times they look at things from previous audits. But it's really up to them as to what they specifically want to see. They may also look at areas they hadn't previously looked at," said Dan Stokes, mechanical engineer and ISO management representative deputy, who assists management representative Tony Santos, both FRCSW employees.

Auditor-identified discrepancies fall under two categories: major, or procedural discrepancies, and minor, or one-time occurrence violations.

Auditors may also note non-discrepancy observations. Although no discrepancies resulted from this

audit, Stokes said results are forwarded to the IPSD management review board for analysis regardless of findings. The board is comprised of the IPSD office managers.

"This really isn't normal. The auditors (external) usually find something. But we've never had an internal audit without a correction action report. Nonetheless, this is really representa-

tive of the people who work here. These are very conscientious people as evidenced by the original Center Barrel Replacement fixture, Starter Test Stand, Plating Shop ventilation modification, and many other equipment and facilities projects," Stokes said. ▲

## FRCSW Giving the Gift of Life



Annabelle Navarro, a phlebotomist from Naval Medical Center San Diego (NMCS), draws blood from photographer Scott Janes in the NMCS bloodmobile while production controller Larry Valdez (background) also has blood drawn during Fleet Readiness Center Southwest's blood drive in June. FRCSW personnel donated more than 50 pints of blood. The next FRCSW blood drive will occur on Sept. 12, at the Building 460 parking lot.

*Joe Feliciano*

# Artisans Breathe New Life Into LM2500 Engines

By Jim Markle

In December 1986, Naval Air Depot North Island (what is now Fleet Readiness Center Southwest), received shipment of a General Electric-built LM2500 engine, serial number GGA 042, from the guided missile frigate *USS Jarrett* (FFG 33) that had 9,000 hours of usage and a high vibration problem.



Aircraft engine mechanics Arthur Trimble (left) and Lloyd Apgar install a compressor casing for an LM2500 engine in the Manufacturing Department in Building 472.

Joe Feliciano

“We did a typical overhaul to GGA 042. We did the gas turbine changes and we took it all the way down – everything was completely stripped on it. The rotor was completely disassembled, remanufactured to new, and rebuilt,” said LM2500 project coordinator Jim Hansen. This type of work was not unusual since LM2500s typically operate

between 10,000 and 20,000 hours before a major failure, Hansen noted.

Now, 20 years and 26,000 hours of usage later, GGA 042 returned to Fleet Readiness Center Southwest in May with a b-sump oil leak (similar to a car engine’s oil pan).

With 35,000 total hours logged, the GGA 042 is a noteworthy exception to the typical maintenance interval. “If it hadn’t been for that sump leak, it’d still be out there running,” Hansen commented.

First used to power the Spruance- and Kidd-class destroyers in the 1970s, LM2500 production began in 1969. The engines proved so versatile and reliable, their use expanded in the 1980s to include Oliver Hazard Perry-class frigates, Ticonderoga-class cruisers and today’s Arleigh Burke-class destroyers. The gas turbine engine also powers oil platforms and pipeline pumping stations.

FRCSW began servicing LM2500 engines in 1976, and Hansen has been with the program from its inception, starting as a mechanic.

“GE warranties their engines for one year when they sell them to the Navy. But when there was a minor malfunction years ago, GE would contact us and send one of us out to do the repairs on the ship. I worked Field Service for about five or six years,” he said.

Field work ended more than 10 years ago and is now performed by Shore Intermediate Maintenance Activity (SIMA). Because engine removal is a costly, three-day process, SIMA only refers work to FRCSW when repairs exceed their capabilities, Hansen stated.

FRCSW customers include Naval Sea Systems Command, the Portuguese and New Zealand navies, and other foreign navies who have purchased U.S. destroyers, frigates and cruisers powered by the engines.

The 20 artisans in the FRCSW engine program service up to 12 engines annually. Engines are repaired for significant cause and not regular maintenance cycles.

“After we repair them, we run them through a complete test. We run them at 9,000 rpm. We’ll get horsepower and oil consumption readings, and check all vibrations and make sure everything is copasetic before it leaves here,” Hansen said.

New twin-shank and single-shank LM2500 engines cost \$2.5 million and \$3.5 million, respectively. FRCSW charges approximately \$800,000 per overhaul and averages 3,300 manhours or 155 days per job, Hansen stated.

*Continued on next page*

# 2006 Commander's Cup Award



(Above) Annjanette Esquibel, program analyst with Fleet Readiness Center Southwest's Comptroller Office, acknowledges the applause from command members attending a video teleconference announcing the winners in the 2006 NAVAIR Commander's Cup Awards. Esquibel was one of three command members who served on the NAVAIR AIRSpeed Deployment Team that won the cup in the Quality of Service category. Two other FRCSW team members – Bryan Pilgrim, an AIRSpeed master black belt, and Alison Lozares with the Comptroller's Office, were not able to attend the VTC. (Below) Electronics engineer James Schrope (standing to right) and aerospace engineer Rodolfo Iribe acknowledge their honorable mention as members of the Integrated In-Service Reliability Program Team in the Logistics/Industrial category. Schrope served as the team leader.

*Joe Feliciano*



## LM2500

“Our competitors charge about \$1.5 million per overhaul. And that’s the reason why the customer keeps coming back to us, we give them a quality product at low-cost,” added LM2500 Deputy Program Manager JB Thurmond Jr.

FRCSW contracts some engine work to civilian companies. One local company, Chromalloy, with a branch in El Cajon, Calif., handles high-pressure turbine blades, first stage compressor blades, and the engine’s first and second stage nozzles. Other companies like Woodward, based in Rockford, Ill., work on compressor inlet temperature sensors and fuel controls, Hansen added.

In program history only three engines have been irreparable. Two were due to foreign object damage, or debris entering the engine, and the third had an excessive vibration problem.

“We sent it (the third) to GE and they put their best people on it, and still to this day, they can’t find out what the problem was,” Thurmond said.

Completion of the GGA 042 overhaul is projected for October, when it will rejoin the fleet inventory. ▲

# Teammate Appreciation Thanks Workers for Job Well Done

As the surrounding photos will attest, there was no June gloom in the forecast for the seventh annual Fleet Readiness Center Southwest (FRCSW) Teammate Appreciation Day, held June 29 on the tarmac at Building 460 on Naval Air Station North Island.

Celebrating workforce diversity, this year's Appreciation Day celebration was combined with American Heritage Day to observe the ethnic and cultural mixture of FRCSW's workforce.



# Day

FRCSW military and civilian employees from Marine Corps Base Camp Pendleton, Marine Corps Air Station Miramar, and Naval Air Station Point Mugu joined the North Island staff for three hours of sunshine, food, giveaways, and entertainment highlighting virtually every genre of popular music.

The event also featured more than 15 booths promoting Equal Employment Opportunity, energy conservation, environmental safety, and many other interests; including a car show for FRCSW employees.

Along with numerous raffle winners, judges awarded the best chili cook-off honors to Lt. Brian Norris, FRCSW Components Department division officer.

Planning for this year's Appreciation Day started shortly after last year's event. Committee members included: Fernando Ramirez, Linda Garcia, Michael Shank, Terrell Moose, Gary Hunter, Terry Moran, Bill Doremus, Michael Furlano, Stuart Lolly, Susan Tinsley, Roger Mikulec, Randall Orand, Brian Norris, Curtis Witherspoon, Russell Wong, and Kenneth Freeman. ▲



Photos by:  
Joe Feliciano  
Chuck Arnold

# Cr

## Safety Expo Targets Chromium Protection

By Jim Markle

To ensure Fleet Readiness Center Southwest (FRCSW) artisans have access to the right tools and right protection, the Industrial Occupational Safety and Health Division recently showcased the latest in protective gear and tools offered by nine companies at the Tool and Personal Protective Equipment (PPE) Expo.

The event specifically targeted tools and PPE designed for working with hexavalent chromium, a liquefied primer coating which helps paint adhere to aircraft and aircraft components. On Feb. 28, 2006, the Occupational Safety and Health Administration (OSHA) established new industry guidelines for hexavalent chromium which must be met by May 31, 2010. The command adopted a three-phase approach to achieving the new industry standard. Those phases included using PPE, modifications to facilities and engineering upgrades.

Tommy Dowdy, FRCSW Industrial Occupational Safety and Health Division manager, said the first phase of compliance, PPE, was completed last October. Complying with the new standards primarily requires reducing the amount of personal and air-borne exposure to a worker within an eight-hour period.

"We kind of had a lead on this as we knew for years OSHA was working on reducing this number, but we didn't know what the number was going to come down to," Dowdy said, "so what we've done as a depot over the last three or four years, has been purchasing vacuum-assisted tools. So we're much further ahead in the preparation arena than anybody else."

Expo vendors demonstrated the latest vacuum-assisted tools including drills, grinders and sanders to more than 200 FRCSW personnel who attended throughout the day.

"It's such a chore to identify all the tooling that we need. What we wanted to accomplish for the supervisor is what the tool-user wants: what's going to work for them in their environment. And I don't want to go in and say, 'This is the drill you're going to use. This is the grinder you're going to use,'" Dowdy said.

Increasing the efficiency of vacuum-assisted tools is of special concern when dealing with hexavalent chromium.

"As the shops try them and use them, and they do or don't work, the vendors will take that feedback and either change them or run with them. The manufacturers are really building them as we try and get what's going to meet this new OSHA standard," Dowdy explained.

The challenge though, he noted, is in determining whether or not new tools will meet the revamped standards.

"Under the old standard, if you were grinding, you were the only person within standard who was exposed that we had to worry about. Under the new standard, the little bit of dust coming out of a tool or the result of a procedure may overexpose a nearby worker who isn't in the immediate breathing area. Under the old standard (that worker) was not considered at potential risk," Dowdy said.

In the paint shop FRCSW almost doubled its expense of purchasing OSHA in-standard respirators this year. Normally, FRCSW spends \$300,000 annually for PPE. For 2007, \$700,000 has already been allocated. Still, safety procedures are constantly analyzed for improvements. Dowdy said ways to achieve full body protection are currently being investigated. "PPE coveralls have a hood with a drawstring like a winter jacket, but with the respirator on, some skin is

exposed. The goal is 100 percent protection from exposure. We don't know if it's realistic, but we're sure giving it a shot," he said.

As opposed to grinding and sanding, other paint stripping methods including pastes and lasers are being developed to eliminate the vast majority of chromium air-borne contaminants. Naval Air Systems Command is investigating a paste which acts as a stripper. Its applicability for FRCSW purposes won't be determined until later this year. Meanwhile, lasers used by the Air Force simply vaporize the paint off aircraft. "Implementation and cost data for that procedure won't be available for two to five years," Dowdy noted. ▲



Industrial Support Specialist Don Van Gundy tests a vacuum-assisted drill manufactured by Clean Air Products, Inc., during the FRCSW Safety Expo.

Joe Feliciano

**White House Award** *from page 4*

processes and technology to safeguard the environment. It's good business, and for me it's also personal – my family lives right outside the gate,” said FRCSW Commanding Officer Capt. Fred Cleveland.

Between 2003 and 2006, the FRCSW Environmental Protection Office implemented \$6.19 million worth of energy and pollution prevention projects generating an annual savings of \$1.19 million. FRCSW received energy grants to fund a majority of those projects.

FRCSW participates in the Environmental Protection Agency's (EPA) performance track program which provides goals for annual reductions in containerized waste, industrial waste, hazardous air pollutants, energy use, and increases in solid waste recycling. To date, all EPA performance track goals have been met or exceeded. ▲



Environmental engineer Larry Lai and environmental protection specialist Diane Cordero review contents and logs of a hazardous materials cart used in aircraft maintenance.

*Joe Feliciano*

**Spirit of Service Award** *from page 5*

In addition to the many collateral duties to help his fellow Sailors, Patel continues to volunteer weekly at the Armed Forces YMCA. Since transferring from Helicopter Combat Support Squadron 11 to AIMD in September 2004, he has logged more than 500 hours volunteering for eight different agencies serving San Diego communities. Among them are Special Olympics, the Malcolm X Library, Habitat for Humanity, the Polinsky Children's Center, and Welcome Home, an ASYMCA event for families of deployed Sailors and Marines.

Agencies that help children are his favorites, he said. "I volunteer every other day. I tutor kids a majority of my time. We go to the Polinsky Center. It's similar to a foster house where kids from infants to 18 years old end up because they've been in trouble or their parents are into drugs or other things. Our goal is to go there and guide them so that when they get out, they don't go back to the environment they came from," he said.



AM2 Gaurav Patel clears an area for the construction of the San Diego Crime Victims Oak Garden. Patel was recently selected for the American Legion Spirit of Service Award.

*Courtesy photo*

Because his graduate school classes currently conflict with the ASYMCA Polinsky Center schedule, Patel volunteers as a tutor at the Malcolm X Library twice a week. "I love talking to kids and helping people. It seems like I'm doing a lot, but it's actually doing a lot for me. I get a lot in return by doing all of this," he said.

Though committed to higher education and serving the San Diego community, Patel said his priority is the Navy. "My goal is to make it into an officer program. I love what I do, and I have everything with the Navy; so I hold myself to its highest standards," he said.

Oriris, his wife of nearly four years, is also in the Navy and currently attending Recruit Training at Naval Recruit Training Center Great Lakes, Ill.

His enthusiasm for volunteerism and community service earned Patel the Military Outstanding Volunteer Service Medal in June. ▲



# Eye “Spots” or “Floaters”

By Gary R. Saks, O.D.  
*Vision & Health Newsletter*  
Reprinted with permission

People can often see “floaters” or “spots” when looking at a plain background, like a blank wall or blue sky. Floaters are small clumps of condensed protein or cells that form in the vitreous, the clear fluid that fills the interior cavity of the eye. Vitreous is 99 percent water and similar in appearance to clear Jell-O. Floaters may appear as specks, strands, webs or other shapes moving into one’s field of vision. People don’t see the floater itself but its shadow cast onto the retina, the light sensitive film at the back of the eye. Since the floater is within one’s eye, and moves with it, any effort to look directly at the floater causes it to constantly “run away” as the eye turns.

## **Light Flashes**

Flashes of light lasting a few seconds may appear when the vitreous gel pulls or tugs on the retina. This may happen as a natural result of aging or it may occur temporarily if the person receives a blow to the head or eye. Usually these flashes, which are often described as lightning streaks, are noticed at night.

The onset of new light flashes of short duration at night, especially when accompanied by the appearance of many new floaters or a blackening out of part of the field of vision, may indicate a retinal tear or detachment. If someone experiences light flashes in combination with these symptoms, they should contact their eye doctor immediately.

Some people experience flashes of light that appear as jagged lines or “heat waves” in both eyes, often lasting 10- to 20 minutes. These types of flashes are usually caused by a spasm of blood vessels in the brain, which is called a migraine. If a headache follows the flashes, it is called a migraine headache. However, jagged lines or “heat waves” can occur without a headache. Migraine-related flashes are often noticed in a lighted environment. Flashes of this

nature are not a symptom of eye problems. When the person suffers from ocular migraines, they should consult a general physician for assistance.

## **What Causes Eye Floaters and Spots?**

In most cases, floaters are part of the natural aging process. As people grow older, the vitreous shrinks causing the development of cloudy clumps of vitreous which are seen as floaters. The shrinking vitreous gel in the eye sometimes pulls free of its attachment to the back of the eye at the optic nerve. When this happens, a large floater is usually seen which can resemble a cobweb. This is frequently associated with the sensation of flashing lights as a result of the vitreous pulling on the retina. The separation of the vitreous from the back of the eye is called a posterior vitreous detachment. During this separation, tears can develop in the retina which can lead to a retinal detachment and can sometimes cause a small amount of bleeding in the eye that may also appear as new floaters. Early detection and treatment of tears can prevent a retinal detachment. Floaters are more common in people who are nearsighted, have undergone cataract surgery, have had YAG laser surgery of the eye, and who have had inflammation inside the eye.

## **Treatment for Spots and Floaters**

Most spots and eye floaters are annoying but harmless and the vast majority of people with floaters do not develop retinal detachment. Whether the person sees clusters, specks, black dots or cobwebs, most floaters go away over time. Either the gel completely dissolves, or the chunks settle down to the bottom of the eye or (most likely) the brain learns to simply ignore them.

There is no drug therapy available to eliminate floaters. Persons may sometimes investigate in surgery to remove floaters but many doctors are unwilling to perform such surgery except in severe cases.

The sudden appearance of new floaters or floaters accompanied by flashes of light or peripheral vision loss could indicate serious conditions such as diabetic retinopathy; vascular abnormalities such as retinal hemorrhages or carotid artery disease. Whenever anyone experiences an increase in the number of floaters, with or without light flashes, they should call an eye doctor immediately. ▲

# A Field Trip to Remember



Tanya Valenzuela, Composite supervisor, (right), describes to students of Hancock Elementary School some of the capabilities of the Composite Repair Program in Building 250 while teacher Cora Ely (background) and Science Enrichment Program (SEP) team leader Paul Johnson look on. The SEP is part of the Navy's Partnership in Education program and introduces basic aeronautic and scientific principles to students at Hancock, Salt Creek, and Willow elementary schools in the San Diego area.

Joe Feliciano

## Smile from page 8

could access that respective camera's memory and pull up a video of the activity affecting that car."

Pan-tilt-zoom cameras are programmed with "default zones." After manually activated, the cameras default to a pre-designated site and angle. Sanders said these cameras are usually targeted at openings of buildings, loading docks, high traffic areas, or where high dollar value items are stored.

"This isn't Big Brother watching the workforce and what they're doing," he said. "This is making sure that we're safe in the way of terrorism, and secondary, it's for the monetary loss of stolen items." ▲

## Metal Shop from page 6

blend the best portions of both to create one standardized process, he said. "We want to build quality into the process by eliminating variation or minimizing variation in the product," he explained.

"This is going to be a work in progress," said Lt. Brian Norris, FRCSW Components Department division officer. "The individual component that we intend to interdict at the FRC level – each one that we tackle – is going to be its own challenge as far as engineering, analysis and evaluating whether the depot can do the repair or not; and then, give it back to the immediate maintenance people to issue out."

Existing work, in the meantime, continues, Balaoing said. AIMD repairs and produces more than 400 flight control surfaces and dynamic components per month. "We're not about to stop the production of parts to our customers who are the squadrons in the Pacific area. We have our first ready-for-issue (RFI) today (June 5). Eventually all of the processes from airframes will increase every year and be absorbed by this building and Building 472," he said.

The initial integration of AIMD Sailors with FRCSW artisans occurred in October 2006 with the AN/APX 100 transponder in Building 463. ▲



Lt. Cmdr. Donald O'Coner receives his gold oak leaves from Capt. Fred Cleveland, Fleet Readiness Center Southwest commanding officer. The newly promoted O'Coner is the maintenance material control officer for Intermediate Level Maintenance.

Joe Feliciano

# AIRSpeed Team Targets Critical Equipment

By Jim Markle  
Photos by Joe Feliciano

**F**inding and eliminating problems leading to intermittent or premature breakdown of industrial machinery throughout Fleet Readiness Center Southwest (FRCSW) is the goal of the newly created AIRSpeed-based Equipment Availability Team.

The team, sponsored by FRCSW Industrial Production Department Head, Donna Russell, and Logistics Group Director, Dr. Sean O'Leary, is led by Black Belt senior logistician Steve Brown and Green Belt electronics engineer Frank Snook. The team recently completed

AIRSpeed techniques are used to identify recurring causes of failure on any particular machine. Those causes are then eliminated through various means, including proactive preventative maintenance (PM) actions.

Brown said an initial intensive PM program requiring a "downtime" for the machine is performed to ensure maximized operation until the units normally scheduled PM. This way, he said, the number of corrective maintenance actions is significantly reduced, ultimately increasing machine usage hours, and so, production.

"A lot of maintenance manuals for the machines say 'Check the filter and if it's dirty, change it.' We would just change it. We don't spend time checking it because we need to get in and get out in a certain amount of time. So, we have the parts kitted and ready to go," Snook said.

As part of the initial PM program, teams may replace the control panels of hydraulic benches, thereby improving machinery accuracy while increasing artisan capability and safety standards. Because emphasis is placed on availability of the bench, instrument installation is usually done gradually according to the artisan's workload, Snook explained.

Hydraulics benches are being targeted due to reliability issues adversely affecting the Net Operating Result (NOR), or budget and expenditures, of the Industrial Components Repair and Modification Division. Also considered critical machinery is the Plastic Media Blast (PMB) booths

in buildings 468 and 472. Snook said the 468 booths will be analyzed next. "If the plane doesn't make it through the PMB booth, everything gets bogged down. So, that directly affects the command's NOR," he said.

As the purpose of machinery differs in the part-certification process, initial analysis, service time, and PM intervals vary, as well.



SWAT team member Merle Richards, a production machinery mechanic in the Maintenance Shop, adjusts new instrumentation to a hydraulic bench in Building 379.

analyzing its first group of machines – 30 hydraulic benches in buildings 472 and 379.

The six-member "SWAT" team is comprised of maintenance and engineering staff. "The team includes maintenance production controllers, calibration and production (artisans) because they're the end users. They prove it out; and they tell us when we've got it right," Snook said. Artisans receive advance notice of scheduled visits.



Using an infrared camera, Chad Fraser, an electronics technician in the Maintenance Shop, verifies external heat generated by new instrumentation as team leader Frank Snook looks on.

“Intervals on the PMB booths are every two months. So once we go down hard for two or three days, the user will know they will have use of that machine uninterrupted for the next two months. Then, maybe we’ll try to extend that use to three months, then four months,” Snook said. “If the customer has the booth running until the next down period, the customer is happy. They know when their machine comes down, and that when it comes back online, it’ll be right; almost like new, in top operating condition.”

Ultimately, a gradual expansion of the program to other critical plant machinery subject to high workloads and failure rates will be considered, Brown said. “I think the bottom line is if the machines are up for production, producing the components and giving them to the aircraft line, then we’re addressing that one piece of the whole matrix to help work toward the goal of aircraft ready-for-tasking,” he said. ▲



Industrial Production Support Department team leader and electronics engineer Frank Snook checks the performance of new instrumentation to a hydraulics bench in Building 379.

## CAPTIVE AUDIENCE

Advanced Composite work leader John Ruiz displays tools used to repair a trailing edge flap to an F/A-18 Hornet to a group of Boy Scouts from Troop 116 visiting from Wyncote, Pa. Ruiz, because of his advanced knowledge and skills in Composites, was selected by his competency to give a Power Point presentation recently on the subject of various F/A-18 surface repairs at the 2007 Defense Department Advanced Composite Material Conference in Tukwila, Wash. F/A-18 surfaces were not originally envisioned to be repairable, but due to the efforts of workers like John they now are.

*Joe Feliciano*



# AWARDS

*Applause*

## CIVILIAN AWARDS

### Promotions

Harris Aldridge Jr.  
 Mitchell Applegate  
 Paul Breniser  
 Keith Clemente  
 Annjanette Esquibel  
 Maria Goingo  
 Charles Haynes  
 Leandro Hernandez  
 Courtney Kearns  
 Matthew Macelt  
 Vincent Martinez  
 Michelle McCormick  
 Gary Middlebrook  
 Timothy Moore  
 Mitchell Morris  
 Josef Neumyer  
 Christopher Pinson  
 Scott Rollins  
 Richard Sanders  
 Michael Stanley  
 Gerald Swope  
 Albert Teruel

### Special Act

#### A

Danny Abbott  
 Danilo Abrajano  
 Charles Adair  
 Alfredo Agredano  
 Joan Agustin  
 Ramon Alba  
 Joshua Alfasy  
 James Allen Jr.  
 Carl Ames  
 Michael Anthony  
 Paul Antonopolous  
 Carl Aquino  
 Ismael Arabaca  
 Arsenio Arce  
 Stephanie Archer  
 David Arenas  
 David Arnold  
 Eugene Array  
 Roger Ashcraft  
 Larry Atkinson  
 Amado Aviles  
 Bernardo Ayuyao.

#### B

Rodiardo Bagtas  
 Jack Bailey  
 Donald Bair  
 Gail Baker  
 Roger Baker  
 Benny Ballandby Jr.  
 Zolito Ballester  
 Juan Bamba  
 Charlie Bates  
 Pete Bauerlein  
 Victor Bayani  
 Thomas Bedania  
 Anne Beeson  
 David Belger  
 Neil Belmont  
 Salvador Benitez  
 Eric Benjamin  
 James Bennett  
 Robert Bersamira  
 Thomas Bever  
 Thomas Blgrave  
 Dana Blair  
 Emmett Blandford  
 Dion Blount  
 Johnn Bollinger  
 Renato Bolo  
 Warren Bonner  
 Craig Bonny  
 Donald Booth  
 Steven Bosset  
 Douglas Bradford  
 Victor Brambila  
 Bridget Breidenbach  
 Timothy Brianna  
 Robert Brinkmeier  
 Lee Brock  
 Kevin Brunson  
 Thomas Brush  
 James Brustmaker  
 Deborah Buchta  
 Michael Budiman  
 Ronquillo  
 Buenaventura  
 Emiterio Bumbasi

#### C

Arnel Cabrera  
 Wilfredo Cadapan  
 Marc Caffo  
 Raymond Cahalan  
 Jeff Calalay

Rolando Callejas  
 Mark Camozzi  
 Adam Candela  
 Romero Canonizado  
 Brian Carr  
 Marco Carvalho  
 Todd Casagrande  
 Ricardo Casalme  
 Cesar Castillo  
 Robert Castillo  
 Jeanette Castor  
 Henry Castrence  
 Alfredo Castro  
 Conrado Castro  
 Kaylinn CatillerRohdenburg  
 Nickson Cayetano  
 Michael Chabot  
 Edward Chandler  
 Keith Chapman  
 William Chappell  
 Peter Chase  
 Mercedes Cheeseboro  
 Marcio Chinn  
 Leroy Chung  
 Carlos Cisneros  
 Gary Clark  
 Archivald Clemente  
 Keith Clemente  
 Lyn Cofer  
 Steven Coffey  
 Jeffrey Cohen  
 Linda Cohen  
 David Cole  
 Daniel Conley  
 Tamara Copp  
 Mark Corbilla  
 Diane Cordero  
 Sidney Cordrington  
 Guendalena Cornute  
 William Cornute  
 Alejandro Cortez  
 David Cortez  
 Magnolia Cortez  
 Shannon Covington  
 Robert Crawford  
 Robert Cress  
 Harlan Crowe  
 Dennis Crowley  
 Theresa Crum  
 David Cruz  
 Joseph Cruz

Daniel Cummins  
 Nelson Custodio

#### D

Chinh Dang  
 Angelito Dano  
 David Dao  
 Donald Davidson  
 Rita Davidson  
 Carl Davis Jr.  
 Jerry Davis  
 Ronald Davis  
 Lee Davison  
 Joel De Alba  
 Daniel Debroux  
 Danilo Decena  
 Rick DeFend  
 Angelito Defensor  
 Manuel Degracia  
 Isagani Delacruz  
 Richard Delgadillo  
 Diana Delgado  
 Amor Delrosario  
 Jose De Real  
 Jeffery Deshazer  
 Dirk Dessel  
 Michael Dinkins  
 Phong Do  
 Felix Dolor  
 Reynaldo Dominguez  
 Paul Donahue  
 Reginald Donaldson  
 Robert Drew  
 Edward Duffy  
 Benjamin Dulos  
 Raymond Duncan  
 Anthony Dunn  
 John Dunn  
 Jorge Duran  
 Pedro Duran  
 Teresa Durazo  
 Stanley Durda  
 Stephen Duryea  
 James Duschane

#### E

Stephen Earner  
 Ninian Eberman  
 Michael Edwards  
 Henry Ellis  
 Rex Ellis Jr.  
 Marianito Endozo  
 Douglas England

Archimedes Escondo  
 Conchita Espinosa  
 John Estrada  
 Chris Eveland  
 Evangelina Everhart

#### F

Lisa Faul  
 Arthur Fife  
 Keith Finch  
 Daniel Fischer  
 Hector Fitz  
 Bobby Fitzsimmons  
 David Flury  
 Peter Fonte  
 Christopher Ford  
 George Foster  
 John Franklin  
 Robert Frasier  
 Arthur Freeman  
 Pablito Frigillana  
 Marvin Frizell  
 Charles Froehlich  
 Pedro Fuentes  
 Kenneth Fugate  
 David Fulbright  
 Andrew Funke  
 Randy Furry

#### G

Edward Gadson Jr.  
 Kurt Gaenzle  
 John Galindo  
 Claudia Garcia  
 David Garcia  
 George Garcia  
 Leonel Garcia  
 Brett Gardner  
 Avelino Garlejo  
 Eric Geilenkerchen  
 Hung Giang  
 Christopher Gibson  
 Walter Gillum  
 Marc Glassoff  
 Dmitriy Glozman  
 Auturo Go  
 Jose Godoy  
 Paul Golden  
 Robert Gonzales  
 Roberto Gonzalez  
 Dinah Goodspeed  
 Manuel Goulart  
 Conor Goulding

Alfredo Grace  
Richard Gray  
Gerald Green  
William Greer  
Gary Grela  
Michael Grice  
Laurie Gris  
Gayle Grover  
Marie Guadarrama  
George Guale  
Tedskip Guinto  
Ernest Gumataotao  
Abraham Gumbayan

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**H**

Khnah Ha  
Duane Halfinan  
Sinh Han  
David Harach  
Mostafa Haririan  
Devin Harmon  
Barbara Harris  
Edward Harris  
Earl Hatch  
Gary Hayes  
Charles Haynes  
Eladir Hazzard  
Mark Heacock  
Barbara Heath  
Alan Helton  
Joe Henry  
Anthony Hernandez  
Leandro Hernandez  
Nestor Hernandez  
Ruben Herrera  
Cary Hershberger  
Cheryl Hespenshide  
Mitsuko Hew  
Albert Hewitt  
Jennifer Hickman  
Dan Hicks  
George Hicks  
Jennifer Hill  
Huong Ho  
Tung Ho  
James Horsfall  
Alister Horton  
Danny Howard  
Yul Hsu  
Angel Huapaya  
Gary Hunter  
Hung Huynh  
Thanh Huynh  
Larry Hyman.

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**I**

Valerie Isaies  
Thomas Isenagle  
Roger Isorena

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**J**

Donald Jackson  
Antonio Jaime  
Celso Jamito  
David Jarvis  
Romeo Jiminez  
Mark Johnson  
Oliver Johnson  
Paul Johnson  
Raymond Johnson  
Samuel Johnson  
Virgle Jones

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**K**

Timothy Kaminski  
Zaid Karim  
David Kelly  
Marcus Kelly III  
Gary Kern  
Gregory Kerr  
Ian Khounborine  
Souvanh Khounbor-  
inh  
Frank Kielbasa  
Morrell King  
Ronald King  
Steven King  
Donald Klass  
Donald Klempel  
Michael Knoll  
Alvin Koehler  
Gregory Kohlbrand  
Michael Korpall  
Allen Kosmalski  
Betty Kozar  
Richard Krick  
Joseph Kroupa  
John Kuhl  
Leonard Kyelberg

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**L**

Johnathan Lacy  
Robert Lacy  
Bao Lam  
David Lao  
Christopher Lapid  
Samuel Lara  
Yolanda Laws  
Hanh Le  
Larry Le  
Alton Ledbetter  
Hayward Lee  
Richard Lee  
Sean Lee  
Anthony Leffert  
Anthony Lewis  
Larry Lewis  
Edmund Lima

Michael Lindke  
Jimmie Little  
Robert Little  
Roger Long  
Jesus Lopez  
Rex Lofton  
Kenneth Louie  
Jose Lucero  
Gordon Ludden  
Raymond Lujan  
Jimmy Luu  
Than Luu  
Michael Lyons

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**M**

Danny Macahilas  
Manuel Madrid  
Philip Magahis  
Bill Mah  
Vincent Mahn  
John Manry  
Jose Maravilla  
Richard Martinez  
Carlos Martinez  
Janie Martinez  
Jennifer Martinez  
Robert Martinez  
Robert Mathers  
Michael May  
Raymond May  
Gregory McCalester  
Mark McCaughey  
Randal McClellan  
Anthony McClure  
John McCormick  
Anne McCoy  
John McDaniel  
Rebecca McDaniel  
Thomas McGovern  
Shawn McSweeney  
Scott Meacham  
Ricky Megginson  
Noel Melad  
Rufino Meneses  
Melaine Mercado  
Ralph Merten  
Filipe Mesquita  
Mark Mick  
Gary Middlebrook  
David Miller  
Patrick Mislivec  
Allan Mitschelen  
Antonio Molina  
Edgardo Molina  
Fausto Molena  
Dominiq Montes  
Jonathan Moore  
Ricky Moore

Wilford Moore  
Carl Moraleja  
Cesar Morales  
Gilbert Moreno  
Ruben Moreno  
Edward Morris  
Thomas Morrison  
Carroll Moye  
Edward Mua  
Kirkland Myles

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**N**

Alvin Nakao  
Glen Nascimento  
Larry Nash  
Reynaldo Navarro  
Juan Nelmda  
Cheryl Nelson  
Gary Nelson  
Florante Nepomuceno  
Kristen Newlan  
Guy Newton  
Daniel Ngo  
Loi Nguyen  
Manuel Nguyen  
Thanh Nguyen  
Thanhlan Nguyen  
Tuong Nguyen  
Louise Nicoloff  
John Niebish  
James Nielsen

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**O**

Kevin Odel  
Thomas O'Donnell  
David Okano  
Kevin Okerman  
Marc Oliver  
Thomas Olson  
Nicholas Onners  
Terence Ongtawco  
Andrew Ortiz  
David Ottino  
Primitivo Ovalle  
Robert Oxley

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**P**

Geronimo Pacelbar  
Elizabeth Padgham  
Gary Paetow  
Ernesto Pagsisihan  
Christopher Painter  
Sophia Palermo  
Michele Palmer  
Gregory Pane  
Danilo Panganiban  
Samson Panganiban  
Lisa Parker  
Terry Parker

Roy Parkhurst  
Francisco Pasallo  
Ghanshyam Patel  
Shonteon Patrick  
Clifford Patterson  
Robert Paul  
David Pearson  
Leroy Pellonari  
Reynaldo Pena  
William Penn  
Ivan Perkins  
Joseph Perez  
Gene Peters  
David Pham  
Harris Pham  
Jimmy Pham  
Loc Pham  
Edmund Pino  
Ruben Porras  
John Powanda  
Felton Pray  
Geoffrey Pre  
John Proffer  
Laurence Puckett

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**Q**

Vicky Quach  
Luis Quiambao

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**R**

Renato Rabuco  
Jonathan Ramba  
Jose Ramirez  
Richard Ramirez  
Pacifico Ramirez  
Pedro Ramos  
Alfredo Rances  
Steven Randell  
Zain Rashada  
Randall Ray  
Dennis Reeves  
Alexander Reimann  
James Renfro  
David Reyes  
Lorie Reyes  
Alejandro Reyna  
Roy Reynolds  
Rommel Requina  
William Reschke  
Larry Rhodes  
Anthony Richardson  
Anthony Richie  
Francisco Rios  
John Ritch  
Stephen A. Roberts  
Kenneth Robertson  
Michael Robinson  
Tommy Rocha  
Lawrence Rocheleau

# AWARDS *Applause*

Joann Rodgers  
Eli Rodriguez  
Richard Rojas Jr.  
Steve Romesberg  
David Rosales  
Richard Rosen  
Thomas Rosner  
Charles Rufi  
Ruby Ruiz  
Mona Russell

## S

Thomas Sablan  
Carlos Sais  
Cecilio Salamanca  
Edward Salanski  
Danny Sanares  
Charles Sanchez  
Brian Sanders  
Richard Sanders  
Dennis Santos  
Rafael Santos  
Ricardo Santos  
Nayrit Santoya  
Lucia Sapien  
Anthony Sardina  
William Scott  
Mark Sena  
Michael Shank

Michael Shea  
Tony Shelly  
Richard Silva  
Gerald Schrader  
David Scott  
Denzel Sipes  
Ellis Slack  
Robin Sluder Jr.  
David Smith  
Edward Smith  
James E. Smith  
Roger Smith  
Wilbert Smith  
Clifford Starkey  
David Starkey  
Chrys Starr  
Dennis Stavers  
Roger Stensland  
Fredrick Stepp  
David Stephens  
Donald Sturman  
Rual Sumabat  
Lisa Swafford  
Stephen Swall  
Gred Swensrud  
Francis Szeto  
Robert Szuba

## T

Michael Tajima  
Albert Teruel  
Hao Thai  
Kham Thai  
Ronald Tillman  
James Thomas  
Anthony Thompson  
Nancy Thompson  
Mary Thorn-Gonzales  
Thomas Thornton  
Duane Tipton  
Garvey Todd  
Arthur Toledo  
Betty Tong  
Michael Tong  
Son Tran  
Sy Tran  
Ngoc Trieu  
Jaime Truong  
Tim Truong  
Benjamin Tumbaga

## U

Hernando Ugalde  
Penelope Ulander

## V

Fernando Valda  
Benito Valdez

Mark Vanderstraeten  
Ronnie Vaughn  
Cesar Velasco  
Arnulfo Velazquez  
Manuel Vianna  
Cuthbert Vigilant  
Eric Vigilia  
Ruben Villa  
Jose Villafuerte  
Nicasio Villanueva  
Celestino Villapando  
Jodi Visosky  
Hausmann Vo  
Dan Vu

## W

Dennis Wagner  
Jerry Walker  
Larry Walker  
Patrick Walker  
ShuJen Walker  
William Walker  
Thomas Wallis III  
Christopher Walls  
Jimmie Watson  
Tena Webb  
Paul Weintraub  
Wade Wendell  
Alice Wesely

Lincoln Westerlund  
Dorothy Wheeler  
Ronald White  
Linda Wicker  
Frank Widick  
Harold Williams  
Shawn Willis  
Steven Winton  
Evan Wirt  
William Wood  
Samuel Woodberry  
Russell Wong  
Sharon Wong  
Michael Wray  
Joseph Wright

## Y

David Yee  
Dana Yenawine  
Richard York  
Cassandra Young  
Craig Young  
Eduardo Young  
John Young  
Reginald Young.

## Z

Cynthia Zimmerman  
Robert Zullo

## PRODUCTIVITY RECOGNITION

### Annual

John Reyes

### Quarter

Mark Corbilla  
Dennis Doleshal  
Vincent Galzerano  
George Jaime  
Nestor Hernandez  
Neil Petkow  
Christine Resch  
Michael Talton  
William Wiginton

### Month

Gary Adams  
John Brenner  
Matthew Bunker  
Abraham Cabal  
John Casey  
Mark Corbilla  
Cynthia Craig  
Julio Deunamuno

Christina Diaz  
Dennis Doleshal  
John Donohue  
Dale Fallert  
Joseph Fazio  
Duane Halfman  
Peggy Happ  
Nester Hernandez  
Celso Jamito  
Joseph Krasko  
Marcus Kelly  
John McDaniel  
Gladys Moore  
Joseph Munz  
Brian Oakes  
Clifford Patterson  
Neil Petkow  
Mark Pohlman  
Jose Quinene  
Michael Rude  
Timothy Savage  
Arthur Trimble  
Ronald Triska  
Robert Tucker

## Time-off

Bennett Dahlin  
Marsha Fox  
Tina Hauer  
Dale Klahn  
Heather Stoll  
Penelope Ulander  
Joseph Wright

## Length of Service Pins

### 45 years

Horace Estrada  
40 years:  
Fredrick Becraft  
Rex Ellis  
Carlos Hernandez  
Deoreli Lagui  
Lewis Lowe III  
Jose Mata

### 35 years

James Barnett  
Pedro Duran

Dennis Echavarry  
Henry Ellis  
Rizalito Estacio  
John Estrada  
Karen Kane  
Robert Locke  
Roberto Martin  
Louis Medina  
Ely Ramos  
Oscar Ramos  
Robert Sena  
Gary Smith  
Ruben Valdez  
**30 years**  
Ramon Alba  
Emmanuel Caandoy  
Wilfredo Cadapan  
Jeanette Castor  
Henry Castrence  
James Cook  
Edwin Davis  
William Deck  
Miguel DelRosal  
Enrique DeJesus  
Jose Esteban

James Gish  
Horace Hill Jr.  
Tom Keener  
James Lovell  
Vincent Mahn  
Dorothy Masondain  
John Mowery  
Frank Ramirez  
Zain Rashada  
Dennis Reeves  
Anthony Richardson  
Kenneth Robertson  
Curtis Price  
Andrew Simon.

### 25 years

Michael Albert  
Jorge Andrade  
Randy Berg  
Shanna Berry  
Charles Carrasco  
Edward Chan  
John Crouch  
Percy Davis  
John Donohue  
Stephen English

Craig Lentz  
Danny Macahilas  
Clarence Resendez  
Ernest Shiwanov  
Fredelita Soriano  
David Triglia

### **20 years**

Eugene Array  
John Cardenas  
Joseph Caruso  
Stuart Lolly  
Lucas Low  
David McClellan  
Griselda Santamaria  
Jaime Truong  
Dennis Turner

### **15 years**

Jeffrey Ayers  
Martha BreuerJohnson  
Ignacio Mendoza  
Daniel Plale  
Debra Rodr  
Howard Rogers  
Nory Samatra  
Christopher Walker.

### **10 years**

Chester Banaga  
Nelson Canter  
Duane Domingo  
Joshua Duryea  
Linda Falcone  
Robin Famador  
Carol Ann Flanagan

Jason Gilmore  
Jeffrey Glover  
William Hines  
David Jalonen  
Harvey Jones Jr.  
Paul Johnson  
Luke Laroya  
John Machak  
William Melton  
Carl Moraleja  
Tracie Okada  
Indar Rai  
Kenneth Sanzotera  
George Shinn  
Brian Trout  
Joe Weides  
Peter Weintraub

### **Retirements**

Michael Bonner  
Russell Christie  
William Deck  
Carl Lawson  
Kenneth McGraw  
Charles Park  
Robert Schmid  
Langston Stevens  
Robert Wilson

### **Sick Leave Is Money (SLIM)**

Paul Antonopoulos  
Jeffrey Ayers  
Donato Baca  
Robert Barrett Jr.  
Lloyd Bjurman

Mary Anne Blaum  
Cesar Caramanzana  
James Chudy  
Daniel Cummins  
Raymond Duncan  
Mario Guigayoma  
Joe Henry  
Napoleon Julienne  
David Lindsay  
Michael Marasco  
Thomas McCrary  
John Millar  
Efren Monzon  
Tommy Moore  
Charles Rufi  
Harvey Ruhoff  
Terry Timm  
Vuong Vu  
Margaret Winbury

## **MILITARY AWARDS**

### **Navy/Marine Corps Achievement Medals**

AD1 Francis Bohannan  
AD1 Rowen Camiling  
PR2 Jennifer Conard  
AO2 Roberto Diaz  
PR2 Ronald Ferguson  
AD1 Daniel Finley  
AT2 Kurt Grothe  
AS3 Joseleo Hizon  
AZ2 Karen Juarez  
AO3 Donald Murphy  
AO2 William Overstreet  
AD2 Andres Polifroni  
ADC Roberto Reyes  
AE3 Nicole Rivilli  
AM3 Maria Rose  
AE2 Louie Villa  
AE2 Darryl Webb.

### **Navy/Marine Corps Commendation Medals:**

PN1 Adewale Adewunmi  
AZ1 Myrtis Calhoun.

### **Promotion:**

Lt. Cmdr. Donald O'Coner.

### **Frocking**

#### **To Senior Chief Petty Officer:**

ATCS Ryan Nichols

#### **To Petty Officer 1st Class:**

AM1 Tobias Bradick  
AD1 Jason Fordyce  
AS1 Edward Hearn  
AT1 Jerrold Hovis  
AS1 Randall Lundy  
AS1 Frederick Manucat  
AS1 Nicholas Rosman  
AS1 Andrei Trillana  
AD1 Matthew Walter  
AT1 Min Zhu.

#### **To Petty Officer 2nd Class:**

AS2 Robert Borja  
AM2 Jayson Bilen  
AS2 Nathaniel Brown  
AM2 Otoniel Causor  
AM2 Jeffrey Crossland  
AS2 Kyle Demers  
AT2 Jonathan Elliott  
AS2 Jonardgil Lopez  
AM2 Arnold Martinezquezada  
AS2 Diana McMillan  
AE2 Jolyn Mollison  
AD2 Marvin Pastrana  
AS2 Matthew Peace  
PR2 Bradley Rosendale

AM2 Paul Swart  
AT2 Ricardo Torres  
AM2 Kelly Valdez  
AT2 Brandon Weaver  
AM2 Paul Wheeler.

#### **To Petty Officer 3rd Class:**

AE3 Aarika Austin  
AS3 Ernest Banks III  
AE3 Adan Bustillos  
AE3 Christopher Clinton  
AS3 William Davis  
PR3 Shawn Evans  
ATI3 Joseph Farrish  
ATI3 Aaron Gabel  
AE3 Richard Harris  
AT3 Kenneth Hathcock  
AE3 Robin Hussey  
ATI3 Brad Lehto  
AE3 Korry Lincoln  
AD3 Steven McCreery  
ATI3 Thomas Magee  
AT3 Dylan Marten  
AS3 Andrew Metzger  
ATI3 Isaac Montecino  
AE3 Kevin Nist  
AS3 Orlando Olmos  
AD3 Amanda Parrish  
AD3 Paolo Palmer  
AS3 Garrett Pickrel  
ATI3 Jeffrey Reddick  
ATI3 John Richert  
AZ3 Michael Schug  
AZ3 Maisha Sellers

AE3 Julie Spence  
AE3 Jonathan Smith  
PS3 John Stanton  
AS3 Johnathon Stone  
AE2 Jayson Walker  
AS3 Jason Webster  
ATI3 Andrew White  
ATI3 Rudolph Williams II  
AS3 Mario Zarate.

### **Letters of Appreciation**

AD1 Andrew Fischrup  
ATC Roy Gloria  
AM2 Osadhi Gunasekera  
ATAA Ken Hathcock  
AD1 Denis Jacobs  
AS1 Reynante Lagman  
AD2 Roberto Liraguevara  
AT2 Carlos Meza  
AS2 Alfredo Raguindin  
AD1 Pavel Slavin  
ASAN Johnathon Stone  
AT3 Jody Walker.

### **Letter of Commendation**

AD2 Juan Llovares.



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- ◆ NAVAL BASE OPEN HOUSE: THE PUBLIC'S UNIQUE OPPORTUNITY TO VISIT NAVAL AIR STATION NORTH ISLAND
- ◆ VIEW STATIC MILITARY EQUIPMENT DISPLAYS & SUPERIOR FIGHTING MACHINES ◆ VINTAGE MILITARY AIRCRAFT FLYOVERS
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