

# TRIDENT TRIBUTE

FY 2020



VOL 2

## TRF “Team” Shines in Generator Replacement

By Keith R. Boydston, TRF Public Affairs  
KINGS BAY, Ga.-Tackling a project rarely attempted, and one that required a complete team effort, TRIDENT Refit Facility (TRF) accepted the challenge – and won.

A select team of 30 planners, engineers and technicians from 11 production shops disassembled, off-loaded, re-assembled and then re-installed a new 28,000-pound motor generator on the ballistic-missile nuclear-submarine USS WEST VIRGINIA (SSBN-736) after one of the submarine’s two 500KW “ship’s service motor generators” required a full replacement.

And Team TRF accomplished all of the work in just 16-days.

“This was quite a large job that’s infrequently seen at TRF,” said John Byers,



Photo by Kimberly K. Menzies

**KINGS BAY, Ga. - Taking on a job not often attempted, and one that required a complete team effort, TRIDENT Refit Facility recently replaced the ship’s service motor generator on the USS WEST VIRGINIA (SSBN-736). The TRF team disassembled, offloaded, reassembled, on-loaded and re-installed a new 14-ton generator in 16-days.**



Photo by Keith Boydston

**KINGS BAY, Ga.-A TRIDENT Refit Facility rigging team and electricians remove the rotor from a new motor generator in preparation for transport, reassembly and installation on the USS WEST VIRGINIA (SSBN-736).**

a Supervisory Production Superintendent for the Mechanical and Electrical Divisions at TRIDENT Refit Facility. “But a quick turnaround was needed and we had the talent and expertise here to do that.”

The ship’s service motor generators supply the boat with “general ship’s service” 60-cycle power and they also recharge the ship’s main storage battery. Each generator can produce enough energy to power 25 moderately-sized American homes.

To support WEST VIRGINIA’s operational availability, the faulty generator was removed and replaced. It was a monumental task that required around-the-clock operations and precise planning and coordination among multiple work centers.

Because of the size and weight of the old and new motor generators,

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**Capt. Paul L. Dinius**  
*Commanding Officer*

**"Respectful. Responsible. Ready!"**

Acting with due regard for others. Having important duties and obligations. Fully prepared. This three-word motto belongs to our adopted school

Kingsland Elementary, yet is perfectly suited to TRF-KB.

We focus on respecting our teammates. We understand the significance of our obligations. We train, practice, and study to remain 100% prepared to fulfill the highest national security objectives the nation has entrusted in us.

We do all of this with a focus on the highest standards of ethical conduct and professionalism. These three words are powerful and I am proud to share them with our elementary school partners.

Congratulations again on winning the 2019 Secretary of Defense Maintenance Award (large command). This DoD award reflects the hard work and dedication of everyone on our team.

There are probably no other teams that can execute a dry docking extended refit, multiple pierside SSBN

refits, execute the closeout of an SSGN test and certification program, AND deploy a maintenance team to the other side of the planet to keep FLORIDA in the fight, forward deployed.

And you do all of this with a high degree of safety and quality, and balancing your time off so that we can execute the mission while enjoying well-deserved time with our family and friends.

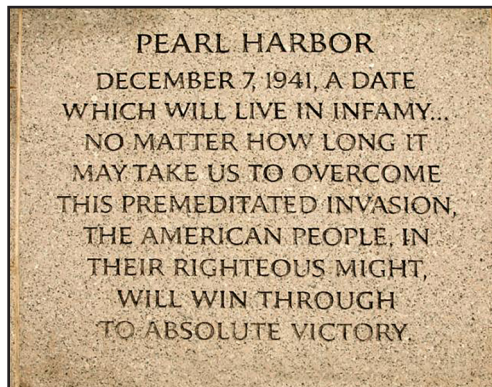
I remain in awe everyday of what you do and how well you do it. I wish you and your families a happy, safe, and enjoyable holiday season!

**Respectful.  
Responsible.  
Ready!**

## National Pearl Harbor Remembrance Day

On December 7, 1941, America was attacked without warning at Pearl Harbor, Hawaii, by the air and naval forces of Imperial Japan. Just before 8:00 a.m., Japanese aircraft ripped through the sky, dropping bombs on ships of the United States Pacific Fleet and on nearby airfields and bases. The attack took the lives of more than 2,400 American service members and wounded another 1,100 American citizens. The brutal surprise attack halted only after nearly two hours of chaos, death, and destruction.

Despite the shock and confusion of the moment, American service members and first responders on the island of Oahu mounted an incredibly brave defense against insurmountable odds. American pilots took to the air to engage enemy aircraft, Sailors took their battle stations, and medical personnel cared for the wounded. Many



witnesses to the events of that day perished in the attacks, leaving countless acts of valor unrecorded. Nevertheless, 15 Medals of Honor were awarded — 10 of them posthumously — to United States Navy personnel for acts of valor above and beyond the call of duty.

Although the United States Pacific Fleet at Pearl Harbor was badly impaired, America did not falter. One day after the attacks, President Franklin Delano Roo-

sevelt declared to the Congress: "No matter how long it may take us to overcome this premeditated invasion, the American people in their righteous might will win through to absolute victory." And, in the weeks, months, and years that followed the brutal attack at Pearl Harbor, Americans united with a steadfast resolve to defend the freedoms upon which our great Nation was founded. Millions of brave men and women answered their country's call to service with unquestionable courage. These incredible patriots fought, bled, sacrificed, and ultimately triumphed for the cause of freedom.

We are blessed as a Nation to have as examples the incredible heroes of World War II, who fought so valiantly to preserve all that we hold dear. The selfless bravery and dedication of these extraordinary Americans will never be forgotten.

# CMC's Message

Merry Christmas and Happy Holidays!

We have accomplished so much this year. Our global reach in maintenance is unmatched, and the support our team has provided in planning and executing the work for our elite submarine force is nothing less than remarkable!

The holiday season is a good time to relax and enjoy the company of our loved ones. As we set out to visit locally or travel afar, be watchful of potential mishaps that could occur because these events are a break from our normal routine.

Things like electrical fires from lights, climbing ladders, traveling too far for too long, traveling in snow or other inclement weather, or just doing things that you wouldn't normally do.

I just ask that you think before you act. Make Operational Risk Management (ORM) part of your daily planning ... it can go a long way in preventing bad things before they happen. As always, if you need help or assistance, CALL your supervisor.

Be blessed and proud of your achievements. I look forward to what we can accomplish in 2020; so let's all be safe and responsible during this holiday season. I want to see everyone return in the New Year.

Again, Happy Holidays and God Bless!

CMDCM(SS) Amanuel McMillan  
Command Master Chief



## DoD 5-Step Model for Deliberate Level ORM

1. Identify Hazards
2. Assess Hazards
3. Make *Risk* Decisions
4. Implement Controls
5. Supervise (and watch for changes)

## TRF, NRMD Sailors Support Local Youth

By Kimberly K. Menzies, TRF Public Affairs

KINGS BAY, Ga.—Sailors with TRIDENT Refit Facility (TRF), and Nuclear Regional Maintenance Department, Naval Submarine Base Kings Bay, volunteer at Kingsland Elementary School, Kingsland Ga. as part of TRF's "Adopt-A-School" program.

"The Adopt-A-School program is one of the important ways our Sailors support our local community," said Petty Officer 1st Class Tony Robertson, the TRF Partnership in Education liaison officer and a nuclear electronics technician (ETN) assigned to the NRMD.

The program is part of the U.S. Navy's Partnerships in Education (PIE) initiative intended to connect Navy commands and local schools with volunteers who are committed to supporting the success of all youth in their local communities.

"I love being able to help the kids, show them that we appreciate their support," shared Petty Officer 2nd



Photo by Kimberly K. Menzies

**KINGS BAY, Ga.—U.S. Navy Sailors with TRIDENT Refit Facility and Nuclear Regional Maintenance Department, lead the Kingsland Elementary School's Book Character Costume parade, Oct. 25.**

Class Chelsea Moore, a volunteer and ETN with NRMD. "As a female Sailor I love being able to show the kids, especially the girls, that there are no limitations they cannot overcome. You can be anything you want to be,"

Robertson said the Sailors try to help the teachers with whatever they may need help with like reading with the kids and participating in award ceremonies, science fairs, seasonal festivities and others functions.

The TRF volunteers devote time to

helping local youths succeed all year round.

"This summer we were involved with the Camden County [Science, Technology, Reading, Engineering, Art, Math] (STREAM) camp," shared Robertson. "We had a wonderful time taking the students through a small battery of science experiments that explained levitation, molarity and chemical changes.

Several Sailors even donated their  
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## TRF, NRMD Sailors Support Local Youth (cont. from page 3)

time and special skills to build benches for students.

"Petty Officer 1st Class Joshua Gibson and Petty Officer 2nd Class Philip Hamm went above and beyond, working together to build benches in their spare time," said Command Master Chief Joshua Williams, former TRF command master chief. "The benches were utilized for an outdoor reading area for children."

During their patriotic Veterans Day program, Dr. Karon Y. Ellis, principal of Kingsland Elementary School, expressed her appreciation for TRF's volunteers.



Photo by Kimberly K. Menzies

**KINGS BAY, Ga.-U.S. Navy Sailors with TRIDENT Refit Facility and Nuclear Regional Maintenance Department, participate in a Veterans Day special program, Nov. 8, at the Kingsland Elementary School.**

"We are so grateful for our partners from the TRIDENT Refit Facility," she said. "We are always so excited to

have you here with us. We all appreciate all the good things you all are doing here for our community!"~

## TRF "Team" Shines (cont. from page 1)

both had to be disassembled and then off-loaded and on-loaded on the ship again – piece-by-piece.

Shop 51, the Electric Shop, was the lead work center for the project and coordinated all work between TRF shops, working closely with the C400 planning and C305 equipment Tag-out teams.

"If it wasn't for the dedicated support and coordination between the crane and rigging teams and the production shops, this fast turnaround would not have been possible," said Robby Allen, the General Foreman and Electrician Supervisor for Shop 51. "Watching the production shops work together to accomplish this mission-critical repair is a great example of why I am so proud to work at TRIDENT Refit Facility."



Courtesy Photo

**KINGS BAY, Ga.-A close-up view of one of the two 28,000-pound ship's service motor generators onboard the USS WEST VIRGINIA (SSBN-736) before being disassembled, removed and replaced with a new motor generator.**

Shop 51A received, disassembled and prepared the new generator for installation on WEST VIRGINIA.

To provide a clear path for the extraction and subsequent replacement of the 14-ton generator, extensive interference removal was required.

This included removal of the Reverse Osmosis Plant, large amounts of ventilation and lighting, a major cooling fan, and main steam pipe lagging. This work was performed by Shops 38, 72A, 02A, 51B, 17A, 11A 56A, 57A and 71A.

Disassembling the old generator before removal, and the new one before re-installing, helped reduce the amount of shipboard equipment and other obstacles that needed to be removed.

It also reduced the weight and size of the generator so the crane and rigging teams from Shops 02A and 72A could use smaller chain falls to offload and on-load the disassembled parts.

The replacement generator installed on WEST VIRGINIA was an "A condition" TRIDENT Planned Equipment Replacement (TRIPER) asset, or shelf-ready



Photo by Keith Boydston

**KINGS BAY, Ga.-TRF electricians work on a ship's service motor generator in preparation for transport and installation on the USS WEST VIRGINIA (SSBN-736). The new 14-ton generator had to be disassembled, on-loaded, reassembled and re-installed on the submarine piece-by-piece.**

spare. It was part of the original Ohio-Class Integrated Logistics System that provides TRIDENT submarines with designated shelf spares.

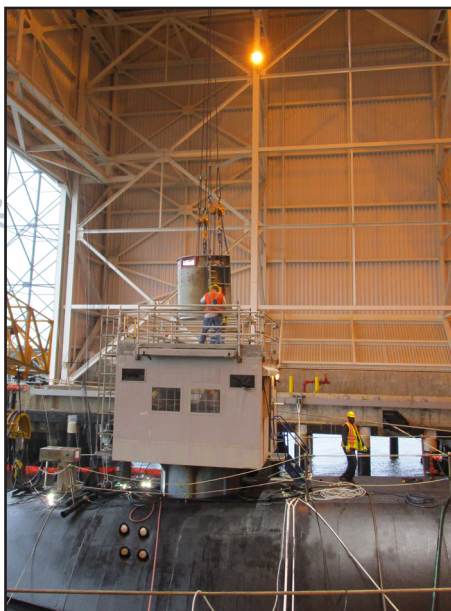
Each TRIPER asset has a designated maintenance activity to overhaul used assets, referred to as "F condition", and then return them to a like new status, or "A condition".

Shop 51A will inspect the old motor generator and prepare it for shipping.

The TRIPER Maintenance Group will then send the generator to the Depot Level Overhaul Point (DOP) at

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*Courtesy Photo*

**KINGS BAY, Ga.-A TRF crane and rigging crew remove a ship's service motor generator from the USS WEST VIRGINIA (SSBN-736). The old generator was disassembled and removed, and a new 14-ton generator was installed.**

Portsmouth Naval Shipyard in Kittery, Maine, where it will take an estimated 8,000 man-hours to overhaul and return it to "A condition".

The safe, careful, and efficient replacement of this equipment supported and maximized the operational availability of WEST VIRGINIA. The WEST VIRGINIA crew were also an important part of this effort in setting the conditions to execute the required maintenance.

Team Kings Bay and TRF continues to implement and support our Nation's top priority – strategic deterrence – and the safe, effective, and timely repair of our elite ballistic and guided-missile nuclear-submarine fleet.~

## TRF Wins 2019 SECDEF Award

TRIDENT Refit Facility has been selected by the Secretary of Defense as a winner of the 2019 SECDEF Maintenance Award.

A highly competitive award with entries from across the Department of Defense, TRF was selected as a Field-Level, Large Category winner and is one of six finalists competing for the annual Phoenix Award – DoD's top maintenance honor.

The Phoenix Award, which recognizes the "best of the best" in DoD maintenance, will be announced Dec. 10, during a ceremony in Spokane, Wash., which will be attended by a team from TRIDENT Refit Facility. ~

## Cycle 243 Advancement



**ETR1 Taylor Shaw**

**LSS1 Tony Dominguezgiron**

**LSS1 Noah Foust**

**MMN1 Devin Martin**

**MMN1 Corey Kessler**

**TM1 Sean LaChance**

**EMN2 Brandon Klevans**

**ND2 Brandon Barreto**

**ND2 Gabriel Cuesta**

**ND2 Charles Fillebrown**

**BRAVO ZULU!**



# Shop of the Month



## SHOP 31T

TRIPER and Training



Shop 31T, **"TRIPER and Training"** employs 26 machinists, marine machinery mechanics, apprentices, work leaders, training leaders and supervisors who provide safe, effective and timely professional mechanical maintenance and services to our Nation's ballistic and guided-missile nuclear-submarine fleet.

Shop 31T is responsible for the overhaul of all mechanical submarine components assigned to the TRIDENT Planned Equipment Replacement (TRIPER) Program (spare parts) along with the management and execution of all on-the-job training for the

"Inside Machine Shop" that includes Shops 31A, 31D, 31F and 31T.

Typical components overhauled by shop 31T include Trim/Drain (T/D) pumps, Main Sea Water (MSW) pumps and Propulsion Lube Oil (PLO) pumps, various types of seawater valves such as SUBSAFE Hull and Backup valves, and more complex air operated valves like Countermeasures Launching.

Shop 31T also overhauls hydraulic components like periscope hydraulic cylinders, stern planes, rudder and fair water planes hydraulic rams.

In addition to repairing, fabricating and

preserving mechanical submarine components, Shop 31T is also responsible for the Shop 31 Apprentice Training Section. This section has a supervisor and training leaders, and oversees all on-the-job training for Shop 31 machinists, cutter grinders and toolmakers.

A critical phase in their development, all Shop 31 machinist apprentices spend their first two years at TRF in this training section before assignment to a permanent work center where they will do what they were trained to do – perform machining operations on submarine components.

## December Safety Message

***"Over the hill and through the woods to Grandma's house we go..." everyone has heard or sung this song before, but let's not take it literally. When getting ready to travel and see friends and relatives this holiday season make sure things are in order, plan the trip with plenty of travel time for enjoyment and rest.***

**Check the Vehicle.** Make sure the maintenance is up to date and your vehicle is travel worthy. Check the oil, coolant and windshield washer levels, along with the tires for tread depth and pressure.

Avoid Distractions. Distracted driving is never good idea, whether it's a holiday weekend or any time of the year.

**Celebrate Sensibly.** Never drink and drive or ride with anyone who has been drinking. But if you celebrated too much to safely get behind the wheel or you find yourself without a sober driver this holiday utilize the Tow-to-Go program. Services will be available over the Christmas and New Year's Eve holiday from December 22nd to 6 a.m. on January 2nd 2018; Call (855) 2-TOW-2-GO or (855) 286-9246; [http://autoclubsouth.aaa.com/safety/tow\\_to\\_go.aspx](http://autoclubsouth.aaa.com/safety/tow_to_go.aspx).

**Holiday Decorations.** When shopping for lights, electric decorations and extension cords, purchase only the ones that are UL-listed, if planning to decorate outdoors, make sure that you use lights and decorations that are rated for outdoor use. Putting indoor-only products outside in the weather can result in electric shock and fire hazards

**Candles and Christmas Light Safety.** Flickering candlelight looks beautiful, but real candles should never be used on or near a Christmas tree (the earliest Christmas trees were illuminated by candles). Even Christmas lights can pose a fire safety problem. Frayed wires left unattended can overheat, turning a dry tree into a raging inferno in just seconds.

**Fried Turkey for Dinner.** Beware the turkey fryer! Crisp, fried turkey may taste delicious, but splattered hot oil can easily start a serious house fire or burn anyone nearby. . In addition to the danger of splattering oil igniting flammable objects nearby, the oil itself can overheat and catch fire. Don't overfill a fryer with oil (leave enough room to avoid spills when you add the turkey); never put a frozen turkey directly in hot oil; or, use an infrared fryer to safely cook your bird instead.