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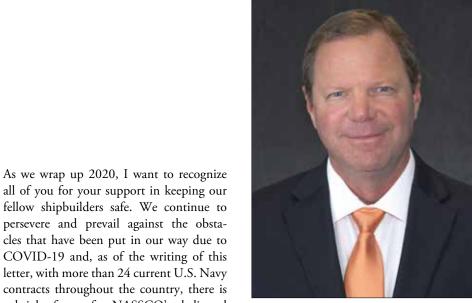
THE SHIPBUILDER

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On the Cover: NASSCO-San Diego, November 13, 2020

PRESIDENT'S NOTE



DAVID CARVER President General Dynamics NASSCO

COVID-19 and, as of the writing of this letter, with more than 24 current U.S. Navy contracts throughout the country, there is a bright future for NASSCO's dedicated shipbuilders. Our New Construction Team has recently been busy wrapping up the Matsonia and preparing the USNS John Lewis (T-AO 205) for launch. We look forward to celebrating the John Lewis' socially-distanced christening next spring. Work continues on the future USNS Harvey Milk (T-AO 206),

the second of six vessels for the U.S. Navy under contract at NASSCO. A major milestone was reached on the newly-renamed future USS John L. Canley (ESB 6), with the first block erected in November. She is scheduled to be delivered in 2022, along with the future USNS Earl Warren (T-AO

NASSCO's Repair Team was recently awarded several new contracts. We continue to demonstrate our commitment to quality and customer service to our gov-

3), whose construction just began.

ernment customers. Most recently, NASS-CO Bremerton was awarded a contract for the aircraft carrier USS Nimitz (CVN 68), flagship of the Nimitz Carrier Strike Group. Meanwhile, NASSCO Mayport just completed work on the Freedom-class littoral combat ship USS Wichita (LCS 13) and amphibious assault ship USS Iwo Jima (LHD 7), making room for guided-missile destroyer USS Thomas Hudner (DDG 116) and the Freedom-class littoral combat ship USS Billings City (LCS 15). NASSCO Norfolk is wrapping up a nearly year-long availability on the Nimitz-class aircraft carrier USS John C. Stennis (CVN 74) and has 8 more ships scheduled to be completed in

In October, we were pleased to announce new contracts between NASSCO-San Diego and both the International Brotherhood of Boilermakers, Local 1998 and the International Association of Machinists and Aerospace Workers, District Lodge No. 947, Local Lodge No. 389. The new threeyear contracts includes significant wage increases and provides many other important programs for our employees and their families, including the continuation and enhancement of the Total Rewards package that became effective on October 1.

As we prepare for next year, I want to emphasize the importance of safety in the workplace. As an integral part of NASS-CO's operations, you are the foundation and the future of our industry. The work we have completed and the milestones achieved have truly been a team effort.

I look forward to continue working with you as we prepare to take on our new shipbuilding and repair opportunities in the coming year. I wish you and your families a happy holiday season.

David Carver President

Our Vision Who We Are How We Work One Team, one NASSCO, better every day Our Commitments

One NASSCO

The Shipyard of Choice for securing our nation and fueling our economy

Highly dedicated professionals anchored in teamwork and propelled by innovation

PERFORM

We maintain a focus on safety, quality and ownership in all aspects of our work

LEARN

We encourage and trust one another to grow and learn while holding ourselves and each other accountable for our collective results

IMPROVE

We acknowledge our mistakes and act on opportunities to continuously improve

SUSTAIN

We are good stewards of our business, our community and our environment

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DEPARTMENT SPOTLIGHT

Department 32 Controller/Payroll-San Diego

Authors

Agnes Balgos, Payroll Administrator • Kisa Moore, Senior Payroll Practitioner

Martha Morales, Senior Payroll Practitioner • Martin Contreras, Staff Payroll Practitioner



Where is your department located?

The Payroll Department is located in Building 1, 1st floor, room 104.

Why is your department so critical to the overall company?

Our department maintains and verifies the reliability of employees' pay data. We make sure employees are compensated without errors and on time. Our department is here to assist, support and make sure everyone is paid accordingly.

Explain your team's typical day. What do you spend your day working on?

In order to prepare our weekly payroll, we review our exception reports to ensure errors are addressed and corrected. We also prepare/process any request of adjustment checks and terminations and assist employees with payroll discrepancies.

Has your team hit any certain milestones or achievements in the past year that you would like to share with your colleagues at NASSCO?

We helped implement the new timekeeping procedure last year. We spent numerous hours with Kronos and IT to make sure all aspects of payroll continue to work efficiently and it has made our work flow easier. We continue to learn about other components of this new timekeeping procedure, including gathering information from our employees and supervisors in order to rectify or improve what's needed. We are constantly keeping our payroll documentation up-to-date.

What are some of the measures or steps you take to ensure that you and your team follow a total safety culture in the work you do?

Due to COVID-19, we ensure our workplace is cleaned on a daily basis. We also limit the amount of employee interactions and schedule staff to telework. We continue to remain informed with office emergency procedures.

Is there anything else you would like to add?

Our mission is to provide employees with the best quality of service. We do things right the first time to reduce unnecessary work. We strive to work with all departments to ensure all employee timecards are entered correctly and reviewed accordingly.



GENERAL DYNAMICS
NASSCO



PERFORM

NASSCO-San Diego Lays Keel of the Future USNS *Harvey Milk* (T-AO 206)

AUTHOR: NASSCO Communications

The backbone of the future USNS Harvey Milk (T-AO 206) was put in place September 3.

Ship sponsors Senator Dianne Feinstein and former naval officer Paula Neira laid the keel by having their initials engraved on a steel plate that will forever be a part of this majestic ship named after Harvey Milk, human and civil rights activist who dedicated his life advocating for equality. Thank you to U.S. Navy Rear Admiral Tom J. Anderson for joining us and thank you to our sponsors, the Navy and our dedicated shipbuilders for helping create this historic day.













Freedom at Work

AUTHOR: Constantine "Gus" Limberis, Ship Manager, Norfolk

Aircraft carrier USS *George H. W. Bush* (CVN 77) completed her first docking planned incremental availability (DPIA) at Norfolk Naval Shipyard on the afternoon of Saturday, August 29.

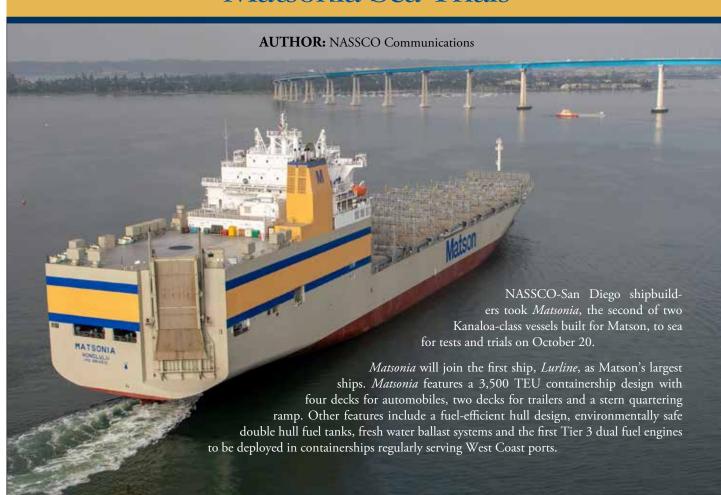
The preservation package for the ship included the entire underwater hull and freeboard areas. Every exterior surface from the flight deck down was preserved. The hull work included preservation and repairs to 210 sea chests, as well as an overhaul or replacement of 35 sea valves. The results of the freeboard abrasive blast revealed extensive and unforeseen structural deterioration in the catwalk areas. A total of 33 tanks and voids were also blasted and preserved.

Habitability work included upgrades to berthing areas, the Chief Petty Officer's mess and the self-service laundry. Watertight door and ventilation section replacements encompassed the entire length and breadth of the ship. More than 20,000 gallons of paint were applied to more than half a million square feet of steel surface.



During his inaugural address, the ship's namesake, the late President Bush stated "We know what works. Freedom works. We know what's right. Freedom is right." From the NASSCO-Norfolk team, we say: "Rest easy Mr. President, freedom is at work!"

Matsonia Sea Trials



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On December 8, NASSCO-San Diego began construction on the future USNS *Earl Warren* (T-AO 3) at the San Diego Shipyard. She is named after the 14th Chief Justice of the U.S. Supreme Court and former three-term California Governor.

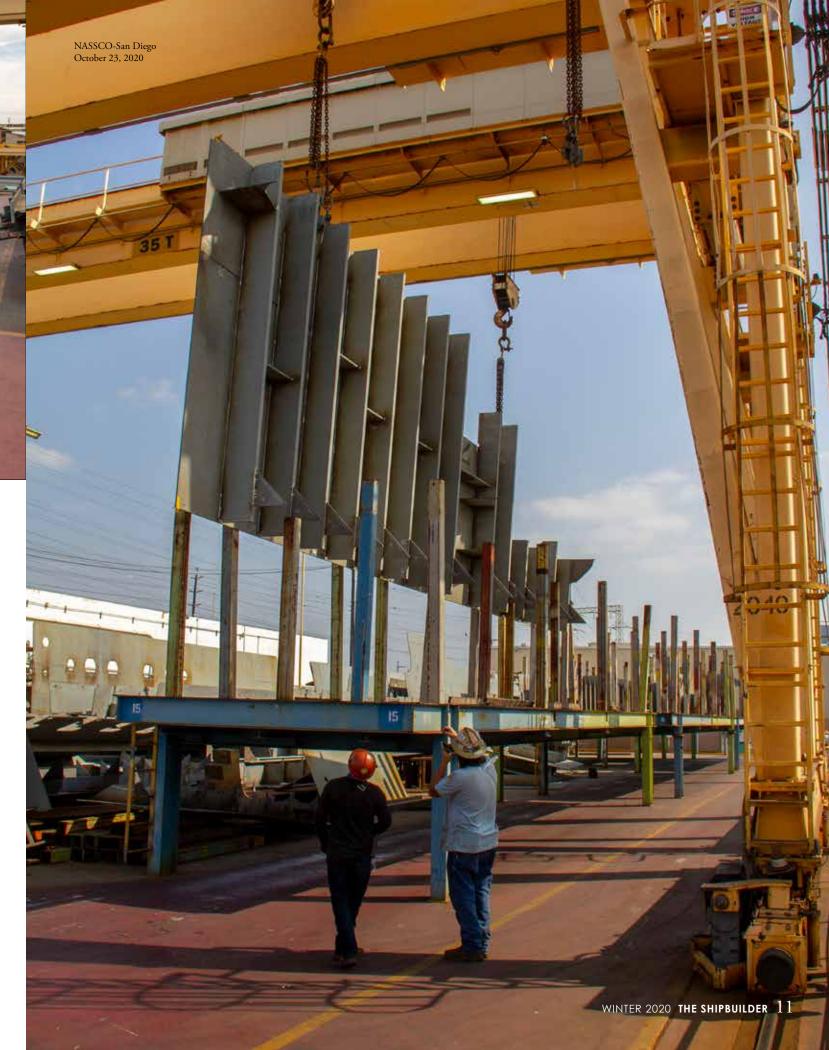
Dave Askew marked the Start of Construction by cutting the first piece of steel. Dave is the Director of Repair Estimating and has been with NASSCO for 45 years.

This will be the third ship in the John Lewis-class fleet replenishment oilers. Designed to transfer fuel to U.S. Navy carrier strike group ships operating at sea, the oilers will feature the capacity to carry 157,000 barrels of oil, a significant dry cargo capacity, aviation capability and up to a speed of 20 knots.









SUSTAIN

NASSCO-Norfolk's Commitment to Improve the Environment

AUTHOR: Nate Stanton, EHS Assistant Manager, Norfolk

In order to ensure the company's oyster gardening program would successfully continue past the soon-to-come cold winter months, two Environmental Health and Safety (EHS) team members came together October 31 to plant oysters at NASSCO-Norfolk's wetland shoreline to improve the environment.

Nate Stanton, EHS Assistant Manager and Bryson Speagle, EHS Management Analyst separated and transferred adult oysters to a place where they could filter water and make room for the smaller oysters in the cages to grow over the next few months. The cages were sorted through on the pier and the large adult oysters were pulled out and put in five-gallon plastic buckets to be taken to the wetlands. The smaller, still growing, oysters were left in the cages and lowered back into the water at the pier. They will grow to full adult size by next year.

NASSCO-Norfolk has been oyster-gardening since May of 2015 in an ongoing project with the Elizabeth River Project (ERP) and

Chesapeake Bay Foundation (CBF). Each year, the CBF through the ERP donates several cages of oyster spat to companies, like NASS-CO-Norfolk, who are River Star Businesses. ERP tracks the progress of oyster-gardening and other programs that businesses conduct to improve the water quality of the Elizabeth River. The ERP is a non-profit organization whose mission is to promote community involvement in the restoration of the Elizabeth River. NASSCO-Norfolk stands proudly with the ERP to "Do Right by the River."

NASSCO-Norfolk will continue to implement initiatives to reduce our environmental footprint and partner with organizations such as the ERP to improve the environment.

Learn more at http://www.elizabethriver.org





NASSCO-Norfolk Receives the Hampton Roads Sanitation District Pollution Prevention Award for the 10th Year in a Row!

AUTHOR:

Donna J. Watkins, Environmental Engineering Manager, Norfolk

NASSCO-Norfolk was recently honored by our publically-owned treatment works for pollution prevention measures implemented in 2019. NASSCO-Norfolk has received this award each year for the past decade. NASSCO-Norfolk's Harper facility received the 2019 Hampton Roads Sanitation District Pollution Prevention Award on December 10.

Each facility must apply annually by listing the previous year's pollution prevention accomplishments. Both Ligon and Harper facilities have industrial wastewater discharge permits with the HRSD.

HRSD honors companies that go above and beyond compliance by executing pollution prevention projects. HRSD inspectors presented our Ligon Street Facility with the 2019 Prevention Pollution Award on November 24, after completing their successful semi-annual inspection.



Left to Right: Kelsey Lowe, HRSD Inspector, Chris Carlough, HRSD Pretreatment & Pollution Prevention Manager, Donna Watkins, Environmental Engineering Manager, Kira Stokes, EHS Specialist, and Stephen Davenport, Environmental Engineer

This award acknowledges NASSCO-Norfolk's new and ongoing environmental stewardship efforts, including special projects, programs and/or initiatives from the previous calendar year. NASSCO-Norfolk's projects listed in our 2019 application include:

- a) **Employee Cleanups** NASSCO-Norfolk completed its 8th Earth Day Cleanup on April 23, 2019 with 26 volunteers. In addition, NASS-CO-Norfolk's 5th annual Tacos for Trash took place on October 4, 2019. NASSCO-Norfolk's Purchasing Department planned the whole event and served all volunteers a taco lunch after the cleanup. Dozens of employees spent their lunch break picking up trash in Company-owned parking lots and adjacent City of Norfolk walkways. Also, at least six monthly 30-minute cleanups helped to remove trash and debris from Harper and Ligon, thus reducing the amount of trash in our storm drains and waterways.
- b) **Oyster Gardening** NASSCO-Norfolk received and grew 18 cages of oyster "spat" in 2019. The oysters (once fully grown) can filter 50 gallons of water per day. In May of 2019, EHS Assistant Manager Nate Stanton transported 18 cages of full-grown oysters to the Chesapeake Bay Foundation (CBF). He went an extra step in accompanying CBF leaders of the ERP in placing these oysters on reefs by boat. See separate article about 2020 oyster garden accomplishments in this edition of the *Shipbuilder*.
- c) Environmental Health & Safety Management System (EHSMS)
- Maintaining an EHSMS builds upon compliance to EHS regulations and permits. The EHSMS provides a platform for communicating EHS policies and requirements, not only to employees, but also to subcontractors, vendors and even visitors. NASSCO-Norfolk received ISO 45001 certification in October of 2019. The Company also passed our ISO 14001surveillance audit.
- d) **Process Improvement Initiatives (PIIs)** NASSCO-Norfolk's commitment to employee-initiative process improvements also includes many environmental upgrades. Harper and Ligon both reduced air emissions throughout 2019. At Ligon, state-of-the art 500kW emergency generators replaced older-model rental generators. Coatings and Facilities installed a new small blast booth at the Harper facility. This was the first step in replacing an antiquated system at our Mid-Atlantic facility, thus helping to reduce air emissions.

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Each year, General Dynamics business units come together for the Manufacturing Symposium event, to share best practices and recognize participating individuals. Presentation topics cover both on and beyond the shop floor, celebrating projects that have helped move forward the common goal of achieving process excellence.

This year, the 16th Annual Manufacturing Symposium event, on September 23, was held virtually due to COVID-19.

The symposium has become the premier event on the General Dynamics calendar and is attended by senior corporate leadership as well as the business unit presidents and senior technical, operational, support management and employees. It is an honor to be selected to present at this event as it is an exciting opportunity to share information about your team's success to the attendees.

Each year, the Excellence Award is given to the highest voted submission by each business unit and this year's winning presentation was given by NASSCO-San Diego's Chris Rathbun, who at the time was Senior Manager Logistics. Chris is now Director, TIMSA Operations.

His presentation, titled "Move Safe Program," addressed numerous accidents and issues involving the handling of shipyard critical material. Members of Logistics, Warehouse, Transportation, Supply Chain, Production Control, Industrial Engineering, Ships Management, Engineering, Machinery, Rigging, Safety and Planning came together to develop and successfully implement (with dramatic results) a new program. The Move Safe Program focuses on identifying and delivering critical material from the origin/supplier to final installation onboard the ship safely and on time, without damage or injury to others.

IMPROVE

General Dynamics Manufacturing Symposium 2020

AUTHORS: Steve Murray, Manager of Continuous Improvement, San Diego



Three additional NASSCO track presentations were made at the event, recognizing significant continuous improvement across key processes.

- Revolution in Shipyard Hiring, Recruiting & Training Programs Operations Training (Mike Jury, Kevin Jorgensen) / Human Resources (Joshua Golter)
- New Thin Plate Panel Line Robotic Welding Enhancements Operations (Sarah Dominique, Matthew Stringfield) / Engineering (John Carlson)
- Electronic Workflow Application to Change Management System Integration Engineering (Andrew Wilkinson) / Information Technology (Samantha Ruzich)

Videos of this year's event presentations, associated PowerPoints and the event brochure can be found on the NASSCO Content Server when entering "2020 Manufacturing Symposium" in the Live Link search bar.

In preparation for the 17th Annual Manufacturing Symposium virtual event in June 2021, the "Call for Papers" has been sent out internally by the Manufacturing Engineering Department requesting "abstracts" of completed projects that have demonstrated tangible and significant benefits.

If you need assistance in researching prior symposium presentations or have an idea for an abstract submission for next year's symposium event don't hesitate to contact the Manufacturing Engineering Department at:

> smurray@nassco.com • (619) 544-1114 rliddell@nassco.com • (619) 544-8551 ricky.cheeks@nassco.com • (619) 544-1185



Current employees can apply for jobs at NASSCO—through a program called Success Factors.

Here's what to do:

- Visit NASSCO.com/InternalJobs
- 2. Click on "View Jobs in Success Factors"
- 3. Enter your username and password
 - First time logging in San Diego? Visit the Employment Office in Building 1 or call the ISD Help Desk at (619) 544-3495 to set up an account.
 - First time logging in Norfolk? Visit the Recruiting Department in the Pass Office or send a request for the username and password to recruiting@nassconorfolk.com
- 4. Click "Careers"
- **5. Search** for open jobs
- Apply online



PDP CORNER



Jose Silahua

When did you start at NASSCO?

I started working at NASSCO on March 11, 2015 and joined the PDP program on July 13, 2020.

What brought you to NASSCO?

I was looking for an opportunity to learn a trade in the maritime industry just like my father and brother. At the time, NASSCO was opening the door to trade students and hired me as a Tank Tester student. I found out right away that I was a part of one of the best, well-structured and quality oriented training programs in the industry. I've had an opportunity to apply this knowledge as a Tank Tester in New Construction and a Tank Tester Working Foreman in Repair.

What were your previous jobs prior to NASSCO?

Immediately before NASSCO, I was a Fire Watch subcontractor in Repair. This fueled my interest in pursuing a career in the fast-paced maritime industry. Before that, I worked in the fitness industry as a personal trainer, sales representative and sales manager.

What rotations have you had as a PDP?

Test and Trials, Contracts, Waterfront Services, Safety, Rigging and Program Management Office.

What have you learned as a PDP?

I believe that the most important lessons so far are to build a strong network and to work as a team. Understanding who does what and building a healthy working relationship with people in the yard, both in management and in the trades, will definitely help in being successful in the shipyard. I've also learned that the ship isn't built by one individual, rather it is built by a team. Working as a team is key, not just in dealing with adverse situations, but also in avoiding them by maintaining peak performance and reducing costs.



Samantha Kruschke

When did you start at NASSCO? July 13, 2020.

What brought you to NASSCO?

I knew coming out of school that the maritime industry was going to undergo some big changes in the near future and I thought there was no better place to see it than from the very beginning. I am very excited to see from the front lines as a shipbuilder what new technology comes about in this new age of shipping.

What degree do you have and where did you go to school?

Bachelor of Science degree in Mechanical Engineering along with a U.S.C.G. 3rd Assistant Engineers License from the California Maritime Academy.

What were your previous jobs prior to NASSCO?

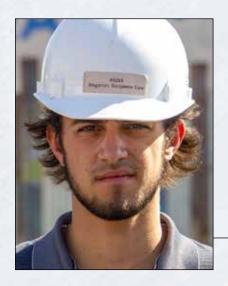
Previously I was an Engineering and Mathematics Tutor at the California Maritime Academy. I have also worked as an Engine Cadet for Matson on the SS Matsonia.

What rotations have you had as a PDP?

Safety, SOC 3 Steel Fabrication, PMO and Test & Trials.

What have you learned as a PDP?

The people at NASSCO are very similar to the ships they build. Every ship needs every system to be functioning efficiently to get the cargo and crew home safe, just like it takes every person in the shipyard to build a ship. A ship can't run without its engines just like NASSCO can't build ships without all of the amazing people in and out of the yard coming together to make something bigger than any individual.



Benjamin Magarian

When did you start at NASSCO?

I started as an intern in June of 2019 and then came back as a PDP in July of 2020 to start my rotations.

What brought you to NASSCO?

I really enjoyed my time here as an intern and was very interested in the shipbuilding industry. I had no prior knowledge of this industry, so it has been a lot of learning which is exciting for me. NASSCO provides a lot of room for me to grow personally and professionally, which I did not think I could find at many other places. Also, it is very tough to beat the weather in San Diego!

What degree do you have and where did you go to school?

I graduated from Massachusetts Maritime Academy in June of 2020 with a degree in International Maritime Business. I was born and raised in New England and ended up at Massachusetts Maritime Academy when I became interested in the maritime industry.

What were your previous jobs prior to NASSCO?

My previous job was at NASSCO as an intern with SOC 6 Ship's Management on T-AO 1, which I really enjoyed.

What rotations have you had as a PDP?

So far, I have gone through Planning, Cost Engineering, Supply Chain New Construction, Safety and I am currently in Repair Production.

What have you learned as a PDP?

I have learned so much as a PDP. As far as learning things about NASS-CO, I have gotten a much better idea of how the company operates and how material flows throughout the yard. It has been very cool to see how much actually goes into supporting production of new build ships and the repair side of things. It is crazy to me how many employees it takes working together to get the job done. Personally, I believe I have improved and learned so much about management and communication skills. Knowing how to effectively manage and communicate with your team is crucial to running an efficient shipyard.



Kyerstie Hogan

When did you start at NASSCO?

I started my career with NASSCO on January 8, 2018 as an Inside Machinist and began my PDP rotations in July 2020

What brought you to NASSCO?

Ships themselves have always fascinated me and serving in the Navy took that fascination to new heights. NASSCO seemed like the next logical step to allow me to grow and to further my career in something that that I find so interesting and exciting.

What were your previous jobs prior to NASSCO?

I served in the United States Navy as a Machinery Repairman aboard the aircraft carrier USS *Ronald Reagan* (CVN 76).

What rotations have you had as a PDP?

I have rotated through PMO, OPC, Contracts, Cost Engineering, Safety and Rigging.

What have you learned as a PDP?

I have learned that each department plays an important role in completing the mission that NASSCO strives to complete each day. It has allowed me to interact with these valuable individuals in order to create a network that will assist in me doing my part for the company.

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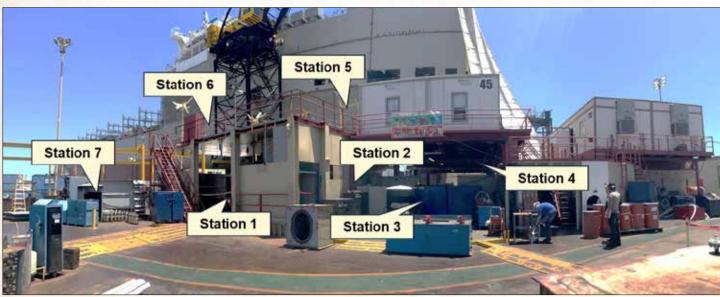
LEARN

Universal Shipyard Hazard Recognition Safety Training

AUTHOR: Kevin Storm Jorgensen, Senior Training and Development Specialist, San Diego

On September 1, Operations Training Department, in conjunction with the Safety Department, rolled out a new training program titled "Universal Shipyard Hazard Recognition" (USHR). USHR is an interactive safety training that develops and expands hazard recognition and mitigation skills

by placing participants into simulated production environments or "stations." Located in the Trades Academy, at the end of Berth 8, each of the seven stations feature dynamic hazards set to a particular theme, such as Fire Safety or Fall Protection.



Participants must complete a task at each station and call out hazards as they see them. Tasks range from performing a hot work inspection on a confined space, to routing lines and leads through bullhorns. Pre-set hazards are spread throughout each station and evaluators make note on a scorecard of the participants' ability to recognize and remedy those hazards.

The USHR safety program is not easy. This challenge spurs learners to fully examine the implications of their actions in the shipyard. Making mistakes and observing the consequences is fundamental to the learning process. The USHR stations are built to challenge the participants in a relevant and authentic context, thus enabling an effective learning process.

After all participants have completed the stations, a Safety Representative identifies all the hazards present and provides corrective actions. All employees receive a final score and constructive feedback before leaving the training station area. If a participant doesn't achieve a passing grade, they must redo the program but with new hazards and challenges.







All production new hires must complete USHR as part of their introductory training. To help them prepare, they attend a two-day instructor-led safety course that features classroom presentations, hands-on activities and study guides.

Topics include:

- Tool Safety
- Respiratory Protection
- Confined Spaces
- Electrical Safety
- Lockout/Tagout Basics

In addition, new hire participants receive certifications in:

- Working Over Water (Lifejacket)
- Fire Safety (Fire Watch)
- Fall Protection (Full Body Harness/Safety Lanyard)

Participants enjoy the opportunity to put their safety knowledge to the test and compete with one another for the highest score.

Beginning in the first quarter of 2021, all NASSCO Production Supervisors will attend the USHR Safety Training Program. They will be tested on their hazard recognition skills and given the necessary information to help them make informed decisions about safety in the shipyard. They will also be asked to provide their invaluable advice on real-life safety concerns they face on a daily basis. That information will be used to continually improve the NASSCO Safety Training so that it accurately reflects needs of the production workers.

"This is my first job and I didn't realize how many more hazards there are than I thought. It was really helpful to have them pointed out."

- Carlos Miguel Bracamonte, Student Welder

"They tell you what the hazards are in the classroom but you don't get the whole picture until you experience it."

– Karen Alicia Portilla, Student Pipefitter

"We competed for the best grade in the safety stations and the connections we made with our classmates continued through our training. It motivated us to do better."

- Destiny Mari Oviedo, Student Pipefitter



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Casing Core: Concept Becomes Reality

AUTHORS: Jessica Skogberg, Senior Engineer, San Diego Dr. John Moatsos, Senior Engineering Specialist, San Diego Kolby Pearson, Engineer 1, San Diego

For the construction of T-AO ships, NASSCO introduced a new method of installing the exhaust piping and equipment into the casing of the ship. The T-AO "Casing Core" concept was born from a combination of ideas focusing on modularity of foundations and backup structure for ease of installation inside blocks as single units.

The idea originated from the NASSCO Outfit Production, Engineering and Design-Build groups. Traditional exhaust uptake designs include heavy equipment and piping systems routed inside the ship casing, supported by the existing decks and bulkheads and incorporated in traditional ship construction block build strategy. This makes the blocks difficult to erect when the heavy piping and equipment are included with the block lifts.

The intent behind the Casing Core concept is that all installed exhaust piping, associated heavy equipment and outfitting can be landed onboard together as three core units, independent of the surrounding deckhouse casing structure blocks. The structure of these units can then be built offsite, at TIMSA, and moved by truck to NASSCO to complete outfitting in the on-block area. Steel square tube cross-braced structure supports all exhaust system piping and equipment, all installed within each core unit. The design makes the construction, transportation and erection of the Casing Units during construction become a repeatable process. The Casing Core blocks are installed and lowered into the ship casing opening after the surrounding deckhouse structure erection is complete.

The NASSCO Initial Design & Naval Architecture (IDNA) Structures team validated the early concept through a series of structural analysis studies using Finite Element Analysis (FEA) that gradually increased in complexity starting with initial sizing of the casing core primary members and supporting deckhouse structure. Modelling and analyzing the structural behavior of these two independent structures, with Design-Build/Production's desire for them to be connected at a minimum number of locations, proved to be exceptionally challenging.

The detailed design and analysis of the Casing Core required an engineering multi-departmental team effort. Outfit Engineering and Systems Engineering made major contributions to the analysis effort, as creative solutions were required to design supports for the heavy equipment held by the Casing Core. The Core Units needed to satisfy all structural, system and vibration design criteria while under thermal and pressure loads at sea.

Structural validation of the Casing Core within IDNA's Structures group was a great team effort. Under the guidance of Dr. John Moatsos (IDNA Senior Engineering Specialist), Jessica Skogberg (IDNA Senior Engineer) conducted the structural analysis of the Casing Core as the technical lead, with assistance from new team member Kolby Pearson (IDNA Engineer I). John provided experience-based knowledge as a Cognizant Engineer (COG) to help develop the analysis method for such a large on-board structure. Jessica developed the FEA modeling methodology and performed the unique modeling, loading and analysis effort. Kolby joined NASSCO during the early stages of the Casing Core analysis effort and quickly be-



came an asset to the team with development of a computer program to help identify highly stressed areas.

New methods to model the boundary (edges) of the analysis by taking the results of the whole ship stress analysis were used to force other loads on the Casing Core analysis. The exhaust pipes themselves put a lot of force on the interior structure since they expand as they get hot, making the analysis complex. The entire outfitted Casing Core weighs just over 200 metric tons, so as the ship rolls and pitches at sea, the mass of the structure loads both the core and surrounding structure. Furthermore, the whole structure had to be analyzed to ensure that structure and equipment installed wouldn't vibrate from the pulse of the ship's propellers. NASSCO is proud of this team-based engineering accomplishment, which was conducted in 2018-2019 as it was fully approved by the Government and ABS for the T-AO design.

Is your CONTACT INFORMATION current?

Address change? New cell phone number? Recently moved offices or changed extensions?

Employees are responsible for keeping all personal and business contact information current.

Here's how to do it:

1. Visit the Employee Benefits Website: www.gdbenefits.com

2. Log In: User Name, Password (as selected)

3. Click on: GD ESS (near the bottom of the page)

4. Click on: Go to GD FSS

5. Under "Personal Information" **Click on:** Contact Information

6. Click on: Edit This Information* (orange box at the bottom)

7. Update information, then **Click on:** Save Changes



*Important!

When updating your mailing address, **DO NOT use Address Line #2**; all address information should be included on Address Line #1 and should not exceed 30 characters.

NOTE: Contact information updated through this link will be updated automatically in PeopleSoft and Livelink.

EMPLOYEE CORNER

Completion of Phase 2: NASSCO-Norfolk Harper Yard Blast and Paint Facility

AUTHOR: Tony Trobaugh, Director of Facilities and Dry Dock Engineering, Norfolk

At the start of the year, NASSCO-Norfolk completed Phase 1 of the Harper yard construction project for the new Blast and Paint Facility. On November 20, NASSCO-Norfolk celebrated the completion of Phase 2 of this project by installing the third and final piece of equipment in the new Blast and Paint Facility. The installation and commissioning of the Large Blast Booth marked the end of a journey started in April of 2018 and would have been ready without the leadership and countless hours spent by Dave Sheffield, Harper Facility Manager.

In one year, NASSCO-Norfolk is projected to save nearly \$255,000 from the efficiencies gained by housing the blast and paint operations within the Harper yard. This includes savings in transportation, manpower and utility costs. Furthermore, NASSCO-Norfolk will benefit from completing many blast and paint jobs in-house without having to subcontract this work as in the past. What was once an under-utilized Flex Shop is now a jewel that is expected to increase production and profit for years to come.

The NASSCO professionals who were instrumental with the completion of the facility were:

Dave Sheffield - Harper Facility Manager Gary Corderre - Logistics Manager Kenny Cannon - Paint Department Foreman Keith Carlson - Program Manager Stephen Davenport - Environmental Engineer Tom Krupnick - Senior Buyer, Business Ops



Left to Right: Chuck Small (Sherwin Williams), Aaron Niner (Sherwin Williams), Donna Watkins, Garry Gould, Tony Trobaugh, Gary North, Kenny Cannon, Ryan Murphy (Rodeco), Dave Sheffield, and Kevin Umphreyville (Rodeco)



Our industry partners, who were also instrumental in making this project successful, deserve many thanks for their support:

CLARKNEXSON (VA)

Sherman Williams (VA)

 $COL\text{-}MET\ Engineered\ Finishing\ Solutions\ (TX)$

EMPIRE Abrasive Equipment (PA)

RODECO Metal Finishing Equipment & Supplies

Dorey Electric (VA)

Hampton Roads Mechanical (VA)

Bailey Concrete (VA)

WSP Consultants (WA)

Additionally, a big thanks to our Environmental Team within the Environmental Health & Safety Department. We would not have been able to secure the required air permit for this great facility without the efforts of Donna Watkins, Environmental Engineering Manager, and her team.

ONE NASSCO BETTER EVERY DAY!



New Three-Year Labor Contracts Announced at NASSCO San Diego

AUTHOR: NASSCO Communications



We are pleased to announce new contracts between NASSCO-San Diego and both the International Brotherhood of Boilermakers, Local 1998 and the International Association of Machinists and Aerospace Workers, District Lodge No. 947, Local Lodge No. 389. The new contracts became effective on October 1, 2020.

These historic contracts are the result of significant work and preparation by the NASSCO-San Diego team and the collaborative efforts by the Company and the

Union. NASSCO-San Diego team's goal was to recognize our employees for the valuable contributions they make to the Company's success, while remaining competitive to provide meaningful em-

ployment for years to come; this agreement accomplishes that.

The new three-year contracts included a general wage increase and significant market adjustments to the pay rates. They also include additional general wage increases in each of the next two years. The contracts provided many other important programs for our employees and their families, including the continuation and enhancement of the Total Rewards package.



As we continue our mission to build and repair ships, we remain focused on our vision to be the shipyard of choice for securing our nation and fueling our economy.





 $22\,$ winter 2020 the shipbuilder $23\,$

BREMERTON, MAYPORT AND NORFOLK -

SERVICE*AWARDS

2020

Each year, we gather to recognize and appreciate the service and contributions of those who have given 10 or more years of service to General Dynamics NASSCO. However, in light of COVID-19, we are taking all the necessary steps to keep our NASSCO employees safe. In an abundance of caution,

and with our deepest regret, NASSCO's 2020 Norfolk Service Award Ceremony, which includes NASSCO-Mayport and NASSCO-Bremerton, were cancelled.

We may not be able to recognize your accomplishments in person this year, but that does not diminish what you have achieved.

Your dedicated service and commitment have established a reputation for excellence and a strong foundation for future generations to build upon.

During this year's program, we recognize 58 of our colleagues.

Congratulations to our NASSCO Bremerton, Mayport and Norfolk 2020 Service Award recipients!

10

YEARS OF SERVICE

SCOTT SINCLAIR Senior Scheduler Norfolk, VA

JOEL STRICKLAND
Sheetmetal Mechanic Specialist
Mayport, FL

CHARLES (TONY) SURMONTE
Facility Manager
Mayport, FL

PACIFICO TALENS Marine Electrician 4 Norfolk, VA CHARLES TAYLOR
Foreman Outside Machine Shop
Norfolk, VA

ALBERT TROTTER
Tool Room Clerk 4
Norfolk, VA

REBECCA VERMILLION Inventory Clerk 4 Norfolk, VA

PAUL WOODINGTON
Maintenance Mechanic 4
Norfolk, VA

TIMOTHY WRIGHT Painter 4 Norfolk, VA

KEVIN ZEHR
Estimator
Mayport, FL

15

YEARS OF SERVICE

MICHAEL ALVAREZ
Supervisor
Bremerton, WA

CHARLIE CANNON Insulator, 1st Class Mayport, FL ELBERT HOOD Warehouse Supervisor Norfolk, VA

ALVIN (MAC) MCBRIDE Sr. Subcontract Administrator Norfolk, VA PAUL THOMPSON
Assistant Foreman
Mayport, FL

ROBERT WANSER
Maintenance Mechanic 4
Norfolk, VA

20 YEARS OF SERVICE

CHARLES AGNEW
Outside Machinist 4
Norfolk, VA

ROBERT BELVIN
Painter 4
Norfolk, VA

ALONZO BERNARD
Temporary Service Mechanic 4
Norfolk, VA

GLENN BROTHERS Foreman Coatings Norfolk, VA

BRUCE CASTELOW
Project Manager
Bremerton, WA

MATTHEW DAVIS Crew Leader - Rigging Norfolk, VA JESSE DUKES
NDT Level III Examiner
Norfolk, VA

JOSE EPISCOPE
Pipefitter 4
Norfolk, VA

JAMES FERGUSON Crew Leader - Pipe Shop Norfolk, VA

BRYANT JONES Tool Room Clerk 4 Norfolk, VA

BRYAN KITCHEL
Structural Shop Foreman
Mayport, FL

VERLON MOSELEY

General Foreman Second Shift

Norfolk, VA

RALPH PECK Insulator 4 Norfolk, VA

SCOTT PERKINS
Foreman Temporary Services
Norfolk, VA

THEODORE PETERSON
Estimating Supervisor
Norfolk, VA

CRAIG WATSON
Painter 4
Norfolk, VA

25

YEARS OF SERVICE

ALFIELD ARTIS JR. Welder 4 Norfolk, VA

CURTIS BAILEY
Senior Estimator
Norfolk, VA

GEORGE JONES Foreman Coatings Norfolk, VA

MARCUS JOSEPH Estimating Manager Norfolk, VA PAUL JUMP Senior Scheduler Norfolk, VA

CARL LITTLEFIELD General Foreman II Norfolk, VA

VINCENT SAVAGE Painter 4 Norfolk, VA

TROY SPENCER
Painter 4
Norfolk, VA

MILLARD (BUSTER) STONE Senior Estimator Norfolk, VA

PAUL SUTTON
Senior Estimator
Norfolk, VA

YEARS OF SERVICE

THOMAS COPELAND

Drydock Mechanic 4

Norfolk, VA

IRIS MURPHY Hazmat Technician 4 Norfolk, VA JAMES O'QUINN

QA Inspector - Ship Repair 4

Norfolk, VA

JOHN QUARTERMAN Maintenance Mechanic 4 Norfolk, VA LIONEL RUFFIN
Temporary Service Mechanic 4
Norfolk, VA

JOHN THOMPSON Subcontract Manager Norfolk, VA 35 YEARS OF SERVICE

DANIEL CAMPBELL Trades Planner - Sheet Metal Norfolk, VA

> JEFFREY DAVIS Pipewelder 4 Norfolk, VA

GLENN MOSELEY
Supervisor
Norfolk, VA

VALERIE REAGAN
Purchasing Manager
Norfolk, VA

TIMOTHY SAWYER
Tool Room Clerk 4
Norfolk, VA

40 YEARS OF SERVICE

ALLEN LANGLEY
Temporary Service Mechanic 4
Norfolk, VA

JOHN MUIR Senior Estimator Norfolk, VA

42 YEARS OF SERVICE

MIKE ELMS
Senior Contract Administrator
Norfolk, VA

NATHANIEL WILLIAMS Temporary Service Mechanic 4 Norfolk, VA

43
YEARS OF SERVICE

JOHN ANDERSON Senior Director of Business Ops Norfolk, VA

NASSCO-San Diego's Master Shipbuilders

AUTHOR: NASSCO Communications

Upon reaching 40 years of service, NASSCO-San Diego employees receive a Chelsea Clock and are recognized as Master Shipbuilders. Congratulations to the following employees for reaching this significant milestone this year!



















NASSCO-Norfolk EHS Employee of the 3rd Quarter

AUTHOR: Donna J. Watkins, Environmental Engineering Manager, Norfolk

David Jackson III is an Environmental Health & Safety (EHS) Senior Representative in NASSCO-Norfolk's EHS Department and has faithfully worked at NASSCO-Norfolk since 2010. David has conducted inspections at all of NASSCO's worksites but for the past four years, he's been the lead EHS Senior Representative at Norfolk Naval Shipyard (NNSY) where NASSCO-Norfolk teams conduct repair work on carriers. Since these availabilities are typically more highly scrutinized by the Mid Atlantic Regional Maintenance Center (MARMC), NASSCO-Norfolk ensures seasoned personnel lead the execution of our safety program at this location. Furthermore, it is critical to have someone who is excellent in interacting both with our customer representative and our project teams assigned to these avails.

Don't let his quiet and gentle demeanor fool you; "Action Jackson" is aggressive in identifying and communicating safety hazards, and is just as proactive in ensuring they are quickly and effectively addressed. This prevents larger issues and communicates integrity to our customer. His ability to work well with others and get the job done has been acknowledged by many. In 2018, he received a certificate and coin from the Commanding Officer of the aircraft carrier USS *Dwight D. Eisenhower* (CVN 69) for excellent service.



David Jackson III, EHS Senior Representative, Norfolk

His willingness to listen and learn the needs of the customer and project team set him apart. His commitment to investigate an issue and provide a timely follow-up response has earned him the respect of all who have had the pleasure of working with him. All of this, plus his genuine care for people is why David is truly valued by NASSCO-Norfolk.

Most recently, due to the COVID-19 pandemic, David stepped up to the plate to cover for fellow co-workers who were ill or in quarantine. He was the sole EHS Senior Representative serving the aircraft carriers USS *George H.W. Bush* (CVN 77) and USS *Harry S. Truman* (CVN 75) at NNSY.

In addition to conducting daily ship walk-throughs and sending out reports, he also was responsible for conducting forklift training for NASSCO-Norfolk employees. While at NNSY, there were a few oil spills and David went to the scene, gathered the necessary information and reported it to NASSCO-Norfolk Security, MARMC Leadership, and the NNSY EHS and Fire Departments. In addition to his legacy of excellence, his recent selfless efforts are greatly appreciated. He demonstrated his ability to perform additional duties with the same professionalism and attention to detail as he has throughout his NASSCO career.

EHS leadership recognizes David's great work ethic as he communicates issues to those who need to correct them. He diligently performs his ship's surveillances with professionalism, communicates clearly, has a great work ethic and is great at building relationships with the project team. NASS-CO-Norfolk considers you a vital member of the EHS and NASSCO family. Congratulations for being named EHS Employee of the Quarter (3rd Quarter 2020)!



NASSCO-Norfolk EHS Employee of the 4th Quarter

AUTHOR: Donna J. Watkins Environmental Engineering Manager, Norfolk



Kira Stokes, EHS Specialist, Norfolk

Kira Stokes, EHS Specialist joined NAS-SO-Norfolk's Environmental Health & Safety (EHS) Department, in March of 2020 (right at the onset of the pandemic). She previously worked for 15 years at the Hampton Roads Sanitation District (HRSD) as a Pretreatment and Pollution Prevention Manager. Since she knows the requirements of this agency, Kira soon began to manage two HRSD permits (one each for our Ligon and Harper facilities). Since March, we have had two HRSD inspections and have passed both.

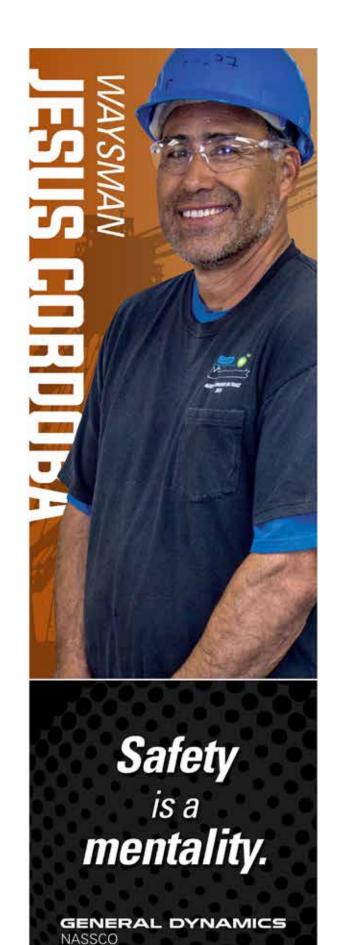
In addition, Kira has made improvements to the tracking and documenting of our wastewater discharge and has worked with our Facilities Department to reduce time and money to meet permit requirements. The Facilities Department recently installed one effluent meter down gradient for six existing meters. Therefore, NASSCO-Norfolk Harper facility only has to calibrate one meter annually (instead of six).

Although having a wastewater background, Kira was hired primarily to lead our Environmental Health and Safety Management System (EHSMS). She successfully completed the five-day ISO 14001 and 45001 Lead Auditor Training and has conducted eight audits at our facilities to evaluate conformance with the EHS MS.

Since completing her audit training, Kira has become a valuable asset helping to improve the onboarding process for our New Hires in the Electrical Shop and the Weld Shop. She was instrumental in identifying areas of improvement for shop leaders to train incoming personal. She also streamlined the check-in process for new personnel entering these shops.

Kira has been a huge help to the Quality Department as well. EHS and Quality share the arduous task of document control. Among other things, this requires that the Company have a system to develop, review, approve and update all of the procedures, work instructions and forms. These documents must also be communicated and readily available to personnel who need them. Kira sends out communications to those who need to know about any updates and changes to documents.

Kira comes to work ready to get the job done and is willing to help whenever asked. She truly is a team player and within six months has become a trusted and valuable member of the EHS family. EHS Leadership recognizes her organizational skills and commitment to get the job done. Kira's willingness to learn and then apply that knowledge is a great asset to the EHS team and NASSCO family. Welcome aboard, Kira. Congratulations for being named EHS Employee of the Quarter (4th Quarter 2020)!



 $28\,$ winter 2020 the shipbuilder $29\,$

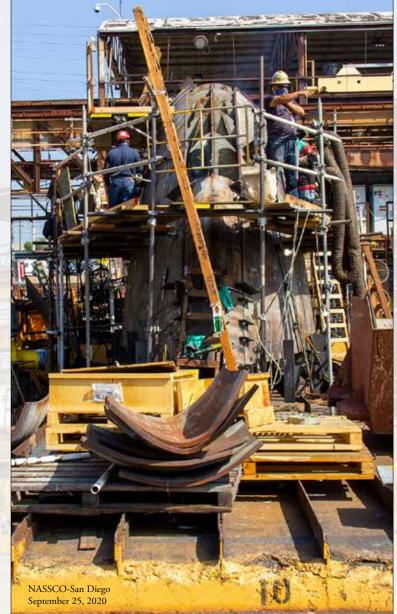
SPOTTED IN THE YARD

















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IN THE COMMUNITY

San Diego Port Tenants Association in a Socially-Distant Operation Clean Sweep

AUTHOR: Megan Granzow, Environmental Engineer, San Diego

One of NASSCO-San Diego's overarching environmental goals is to put waste in the right place. While this goal predominately applies within the shipyard, NASSCO also strives to be a good neighbor within the local Barrio Logan community.

Recently, NASSCO's Clean-Up & Restoration Committee (CRC) hosted two socially-distanced community cleanup events focused on removing trash and other debris from the streets around the NASSCO Shipyard, along Harbor Drive and 28th Street. In just four hours, the CRC was able to remove almost 500 pounds of trash!

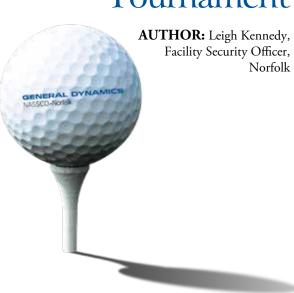
Litter damages habitats along the water-front and is potentially life-threatening to the sea life that live in San Diego Bay and Chollas Creek, including endangered species like the Eastern Pacific green sea turtle, Ridgway's Rails (formerly Light-footed Clapper Rails) and California Least Terns. Fish, birds, sea turtles, and other marine mammals can become entangled in debris or consume plastics which may give them a false sense of fullness and lead to suffocation or starvation.

Even while outside the shipyard, please help protect the Bay and be a good neighbor by

ensuring that waste is put in the right place!

The CRC is a volunteer community service group made up of NASSCO employees and contractors who are dedicated to removing debris from the surrounding community, restoring Chollas Creek, and protecting San Diego Bay. In addition to regular community cleanups, past CRC events have included invasive species removal, planting of native foliage, and painting community benches and tables at a local park. For more information about the CRC, please contact the Environmental Engineering Department at (619) 544-7506.

Virginia Ship Repair Foundation 34th Annual Golf Tournament



NASSCO-Norfolk participated in the 34th Annual Virginia Ship Repair Foundation Golf Tournament at Bayville Golf Club on Tuesday, October 20. The event supported workforce development, training, programs and initiatives aimed at ensuring the ship repair industry remains strong through a highly-skilled workforce.

In less than 24 hours, the tournament sold out with full sponsorships. More than \$60,000 was raised to benefit the Virginia Ship Repair Foundation which focuses on community outreach, industry awareness and workforce training and development. The Virginia Ship Repair Association (VSRA) and Foundation boards are both focused on recruiting and developing tomorrow's ship repair workforce.

Special thanks to the planning committee who secured 66 door prize items and 17 big ticket items for the golfers. As a new addition to the tournament, Prism Maritime sponsored an unforgettable experience with Charity Golf Guns, which helped to raise an additional \$1,000+ for the foundation. Congratulations to Huntington Ingalls Industries-Fleet Support Group in winning first place. Coming in second was Integrity Staffing Services, with Capitol Finishes placing third.

NASSCO-Norfolk is a member of VSRA and is just one supporter of 295 other companies in the association. The VSRA is a regional industry association representing companies engaged in, or supporting, ship repair in Virginia and the Mid-Atlantic region. Their mission is to focus and coordinate member resources on the issues, challenges and opportunities facing the ship repair industry in Virginia and across the Nation.

NASSCO-Norfolk Recreation Committee Write Stuff Campaign

AUTHOR: Karen Clements, Contracts Coordinator, Norfolk

The NASSCO-Norfolk Recreational Committee teamed up with The Salvation Army of Hampton Roads in their annual Write Stuff Campaign!

The mission of this campaign is to collect school supplies for area children in need. This year, some students will be learning virtually while others will be in the classroom, but the need is still there to have school supplies donated.

Unlike years past, a new program was launched in 2020 to adopt a student online for \$12 with a donor match of \$12 to purchase school supplies in bulk. Many employees donated and/or adopted a student. We appreciate everyone's participation and look forward to more community service events such as these.





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NASSCO-San Diego Around the Community

AUTHOR: NASSCO Communications

This year has been more challenging than anyone could have predicted. NASSCO-San Diego regularly supports the surrounding community but with 2020 presenting more obstacles than usual, NASSCO rose to meet the challenges with donations to the local Rady's Children Hospital, The San Diego Foundation, the Logan Avenue Consortium and several other local nonprofit organizations. The money contributed helped support local COVID-19 relief efforts.

NASSCO-San Diego firefighters also helped to collect \$3,000 from employees for NASSCO's Annual Toy Drive that will benefit the Barrio Station and the Good Neighbor Project in Barrio Logan. The money collected will help to purchase toys for children from eight Barrio Logan elementary schools. Special thanks to the Port of San Diego Ship Repair Association for purchasing, wrapping and delivering the toys to the children.









Retirement

John C. Belfiore

Master Planner Scheduler

September 16, 2020

David M. Do Supervisor Production August 14, 2020

Electrical Tech Working Frmn September 4, 2020

> Julius James Fuller Machine Operator A October 14, 2020

Reymundo A. Garcia
Pipe Welder
August 31, 2020

Antonio Olivares Licea
Inside Machinist
October 30, 2020

Jesus I. Mendez **Tank Tester Repair** November 6, 2020

Julio R. Munoz

Carpenter

August 31, 2020

Hector G. Ortega
Pipe Welder
August 21, 2020

Scott R. Quinn
Pipefitter
September 25, 2020

David D. Samudio Senior Engineer October 2, 2020

Brian Robert Silva **Waterfront Technician** September 11, 2020

Hector H. Tamayo Contreras Electrician September 2, 2020

Kavy Tharavong
Code Welder
September 30, 2020

Martin Loyd Van Sandt Supervisor Warehousing November 2, 2020

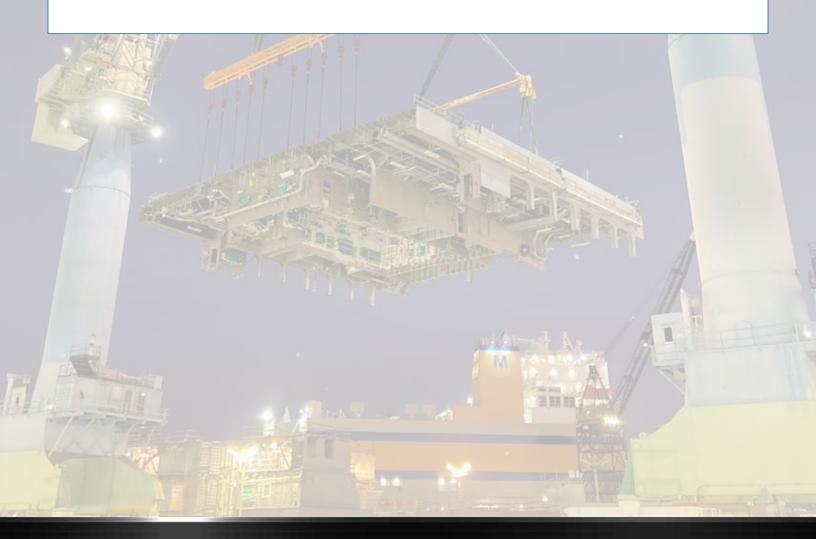


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