

## Earth Day and Electric Boat's Focus on Environmental Issues

Friday, April 22nd marks the 52nd celebration of Earth Day around the world. This movement began in the U.S. in 1970 to raise awareness of the need for regulatory and legal mechanisms to protect the environment. Earth Day was adopted internationally in 1990 and is now celebrated in over 141 nations and has become the rally point for international focus on global environmental issues!

On Earth Day 2016, 175 world leaders signed the most significant and legally binding climate accord in history known as the Paris Agreement. The Paris Agreement now has the commitment of 193 nations worldwide to stop global climate change. This agreement sets world goals for Green House Gas (GHG) reductions for the next century in an attempt to slow and eventually stop global warming. Today, I am proud to tell you how Electric Boat is doing their part to meet this initiative.

In 2021, General Dynamics set a goal to reduce its Scope 1 and Scope 2 absolute GHG emissions by 40% from a 2019 baseline before the end of 2034. EB has accepted this challenge! Scope 1 emissions are those generated directly from sources operated by EB, such as heating plant boilers, vehicles, and generators. Scope 2 emissions are indirect, from the production of energy consumed by EB, such as electricity. Absolute emissions means the 40% reduction must be achieved regardless of growth. Considering EB's current outlook for growth this will be a major challenge, and will require everyone's help and some creative thinking.

To meet the challenge, EB has formed a GHG Committee with a high-priority focus on evaluating EB's current GHG emissions and blazing the path forward to achieve the 40% reduction by 2034. Energy efficiency audits are underway for buildings and certain systems and equipment to better understand energy usage and identify reduction opportunities. EB's newest buildings and systems have been designed and constructed with these energy efficiencies in mind, and the new audit information will ensure EB can align all future efforts to update and

improve buildings and equipment with the GHG reduction goal. For example, the recent replacement of four steam boilers in the Groton Shipyard's Main Yard Heating Plant reduced EB's GHG emissions by 9% of our 2019 baseline. This effort not only reduces EB's GHG contribution but also improves air quality in the surrounding community. Other small and large-scale upgrades are already in the works to achieve further reductions.



Main Yard Heating Plant Steam Boilers

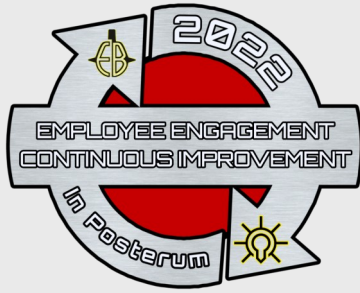
We intend to keep this momentum going! Once the current facilities and systems are assessed and modified as practicable, EB will begin evaluating some longer range projects, such as solar panel leasing, purchasing of green (renewable) energy, use of bio-fuels, and converting to electric vehicles.

EB has just begun this challenging journey and there are no bad ideas. Please help us turn over every stone. If you have comments or ideas for GHG reductions or any other environmental subject, please don't hesitate to reach out to your Environmental teammates (Environmental\_D503@gdeb.com, Environmental\_D974@gdeb.com). We need everyone's help to be successful!

Remember "Protecting the Environment is Everyone's Responsibility!"

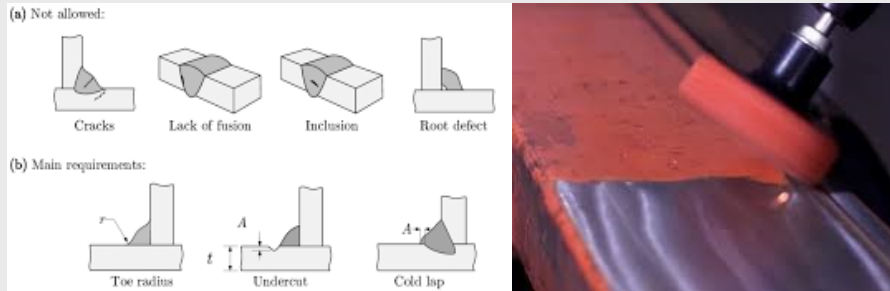
**Michael Sinko**

Sr. Manager, Environmental Resources Management



# Continuous Improvement

## Defects



Ever get a part or assembly that can't be used without having to rework it? It can be more than aggravating; it is a waste of our time and money. In manufacturing these are referred to as Defects.

Defects occur when a part, assembly, or product is found to not meet specifications or have flaws in it after production occurs. They must be reworked, resulting in additional costs, delays and possible safety issues, or scrapped. In addition they are often one of the most costly forms of waste because they can snowball into other forms of waste such as additional Transportation, Overproduction or Extra Processing.

Defects absorb resources such as time, money or material that produces no, or negative, business value. This means that defects destroy value by using more resources than should be required, or by using resources that produce parts or components that are not useable.

**So what can be done?** First, ask how often this happens. Is this a one-time occurrence or is it frequent? Next, reach out to the source (department / vendor) and explain the problem to help prevent it from recurring.

A one-time issue (e.g.: an inexperienced worker, etc.) can be addressed by Supervision to prevent it from repeating. A recurring problem usually requires a team effort and often the people with their hands on the parts can tell you a lot about what is creating issues:

- a lack of standards or poor documentation
- poor quality controls
- a lack of a defined process altogether
- poor product design
- undocumented design changes that don't marry to related parts
- poor inventory control leading to "as needed" manufacturing process adjustments

### So what can you do? You can:

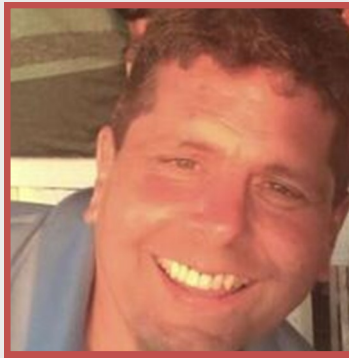
- review the part or product design for 'designed-in' defects
- check for standardized work plans and QC job aids such as checklists
- check for a full understanding of product requirements and consider training
- and ask the people in that area!

(From an article—Types of Waste in Lean Manufacturing—Part 1—Defects Waste by Emilie A Lachance—April 13, 2018)

**Have a process improvement idea, or simply just want a board to bounce ideas off? Discuss your idea with your Supervisor. If additional resources are required for implementation, your Supervisor can contact Process Engineering.**

## Dedication of the EB Quonset Point Pipe Packaging Facility/B2029

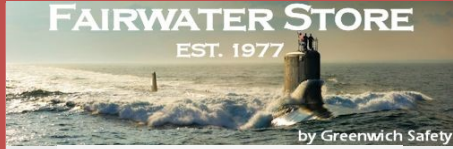
**Michael Imbriglio III, D955 - 10/27/64-2/7/21**



On April 13, 2022, EB Quonset Point dedicated the new Pipe Packaging Facility (B2029/Lowe’s bldg.) to D955 employee, Michael Imbriglio, who passed away last February. Mike played a large role in the development of this new building over the course of several years in the Spatial Planning group through a transition to become the Work Center Readiness group. This team worked on refining layouts of the interior and exterior spaces to accommodate special zones for particularly heavy pipe packages, and making sure all the VA and CLB pipe packages within would fit within the crane capacities, maintain access to transportation, special equipment, and gas/electrical lines.

Mike was described by his peers as a hard worker who always put the utmost attention to detail into his work, a trusted mentor, and an overall great person. He was also known for having the kind of sense of humor that kept everyone on their toes, so you needed to really pay attention to keep from getting tricked! Mike was also a dedicated family man to his wife and two children, and a soccer coach of 18 years as his children grew up, moving on to taking a job as assistant coach at one of the local high schools, which was his true passion that he was very proud of. Although he never got to see the completed building, we are able to witness all the hard work and dedication that he put into this project paying off. Area Superintendent Ed Guertin said that the facility is working smoothly, even on first time builds, which are always tricky to get right. Let this plaque remind you of Mike Imbriglio, how precious our time is, and how our hard work and dedication can leave a lasting legacy for many years after the job is done.





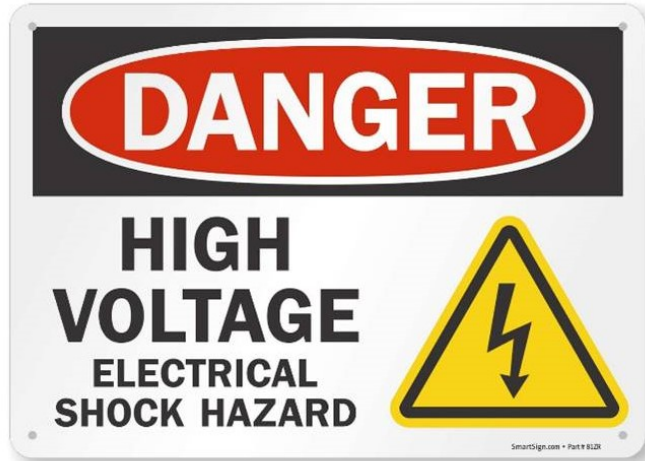
- **NEW!! Ladies Timberland Hightower Boot!**
- **SSN 801 Utah apparel in stock**
- **Seawolf available**
- **SSN 796 New Jersey hoodies in time for spring!**

**Hours of Operation**

**7:30 am to 4:00 pm**

**6:30 am every other Wednesday:  
4/13, 4/27**

**Electrical Safety Stand Down**  
Inspection to take place  
**April 21, 2022**



**GENERAL DYNAMICS**  
Electric Boat

**Policy Statement # 13:** Electric Boat Corporation has established Occupational Health and Safety as the Company's Number One Priority.

Week 16

**QP Dispensary**  
Stay up to date with vaccinations  
Available every Friday

**April is National Donate Life Month**

National Donate Life Month is celebrated every April and features a full month of activities to help encourage Americans to register as organ, eye, and tissue donors after they pass away, or becoming living donors by giving blood or donating a kidney, part of a liver, or birth tissue. Here are some facts and figures about being a donor:

- **Living donation** is an opportunity to save a life while you are still alive and don't need to be related to their recipients. One of every four donors are not related to the person receiving the donation. This was developed as a direct result of the critical shortage of deceased donors.
- Patients who received a transplant from a living donor are removed from the national transplant waiting list, making the gift of a deceased donor kidney or liver available for someone else in need.
- **One deceased organ donor** can save up to 8 lives, and one tissue donor can improve the lives of more than 100 others.
- Every 9 minutes, someone is added to the donation list.
- On average, 17 people die per day waiting for a transplant.
- More than 100 thousand people are on the national transplant waiting list.
- More than 85% of patients waiting are in need of a kidney, 11% are in need of a liver.
- In 2021, over 40,000 transplants occurred. 13,861 people became deceased organ donors (up to 8 organs), while just under 6,000 were living donors.

**Please consider becoming an organ donor and help save lives!**

For more information, or to register, please visit [www.donatelifenewengland.org](http://www.donatelifenewengland.org)

**Donate blood at the next QP Blood Drive - May 10-12**