



Community Update

January 2020

Odor Issue Addressed with Upgrades to Refinery

In February of 2019, an issue with the Marathon Detroit Refinery's flare system caused the release of sulfide and mercaptan, and with it an intrusive odor. As part of our pledge to the community, Marathon officials completed a full after-action investigation. Here's what was learned, and what steps we've taken to ensure this does not happen this winter and beyond.

It was determined that a dead leg - a component of a piping system with little or no flow - separated at an elbow due to the extreme freezing and unthawing patterns. Since this dead leg was unused, a low point allowed water to accumulate. In January, the extreme cold temperatures caused this water-filled line to freeze, cracking a weld on the elbow. Then, on February 2, when temperature increased above 40 degrees, the ice in the line melted.



Marathon firefighters sponsored training for local firefighters this summer. They worked together at an industrial fire school in Texas.

While performing rounds, a field operator heard a popping sound. Upon arriving at the scene, the operator witnessed a vapor release and sounded the emergency alarm. The refinery's fire fighters (or emergency response team) responded to secure the scene. Additionally, our air monitoring team conducted around the clock air monitoring within the community for a week to ensure everyone's safety.

Marathon officials conducted a root cause investigation, and it was found that there was insufficient insulation, leaving the elbow exposed. It was also determined that a Marathon procedure for managing dead legs was not in use at the time of the failure. That has since been addressed.

Several steps were implemented, not only in Detroit, but company-wide to address this issue and make sure all refineries operate in the safest manor possible. These steps include:

- Removing the failed piping and eliminating all dead legs
- Enhancing dead leg tracking to review all previous references and recommendations
- Implementing additional procedures to address extreme cold conditions with additional safeguards, including temporary insulation, draining, and monitoring of dead legs.

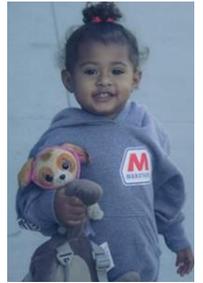
While the polar vortex was an extreme weather situation, Marathon will ensure the safety of our employees and the surrounding community in all weather conditions. If you have any questions or concerns, you can always call the Refinery Hotline at (313) 297-6272.

And of course, you can sign up to receive refinery alerts by visiting <https://detroitrefinery.com/sign-up-for-refinery-alerts/>

Out in the Community

Fall Fest at Kemeny Center

Marathon hosted over 800 community members at the Kemeny Center for the Fall Fest in October. We gave away more than 1,000 hoodies and 1,000 blinking Halloween necklaces to each community member. In addition, four \$50 gift cards were raffled off for Halloween costumes. Activities included pumpkin painting, cookie decorating, bike repairs, haircuts, inflatables, and much more! More than 40 volunteers from the refinery helped make this day possible.



Halloween

Marathon volunteers handed out Marathon bags filled with candy, snacks and goodies to a record of 250 kids at Rollercade.



Additionally, we had lots of fun with more than 400 kids at Patton Park's Trunk-or-Treat. We hope everyone had a fun and safe Halloween!

Fort Street Bridge Park



Marathon employees Honor Sheard, Dave Malone and Treva Formby stood side-by-side with Rep. Dingle and Congresswoman Tlaib to celebrate the groundbreaking of southwest Detroit's new Fort Street Bridge Park.

Thanksgiving

River Rouge All-Star Giveback Turkey Drive

Marathon helped to sponsor the All-Star Turkey Drive and volunteered by passing out hot chocolate, reusable grocery bags, and oven mitts. Big Sean was the featured All-Star!



Leaders Advancing & Helping Communities (LAHC) Turkey Drive

Marathon sponsored the LAHC Turkey Drive and volunteered distributing over 500 bags of food.



Holiday Season

Marathon partnered with La Sed: Latin Americans for Social & Economic Development Inc. to provide over 120 brand new coats to kids; and go shopping for our neighbors in SW Detroit, including seven families and 27 boys from an orphanage in Dearborn. Throughout most of December, we called on our employees to help us raise funds and they delivered, producing over \$13,000 for reinvestment in the community.



Petrochemicals Every Day

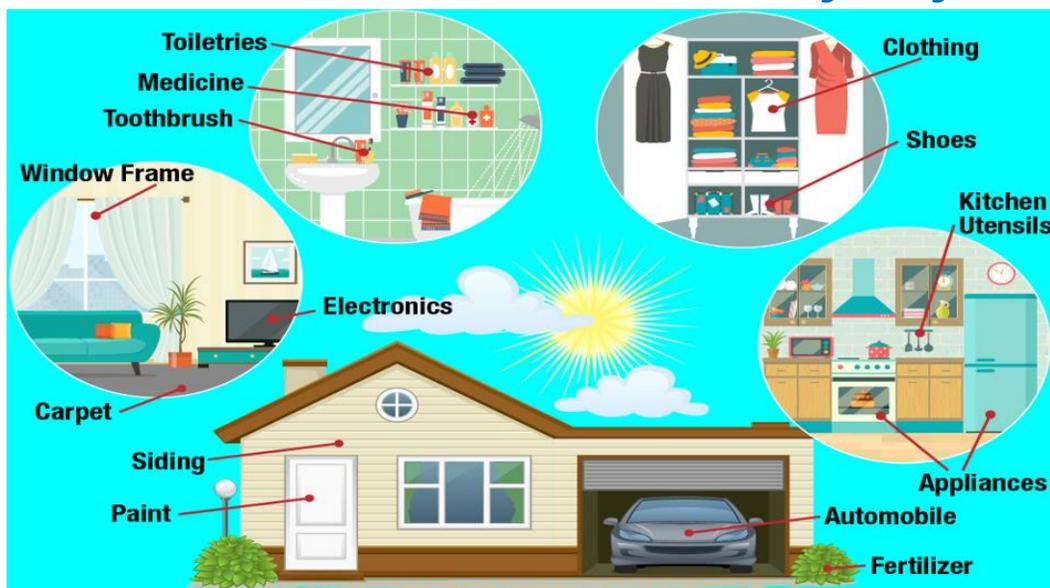
Did you brush your teeth today? Did a loved one receive a toy this holiday season? Did you watch a DVD recently or walk across the carpet in your house or apartment? All these items – and countless others – are comprised of propylene. And this product, along with several others, including gasoline, diesel fuel and asphalt, is produced at the Detroit refinery.

The Detroit Refinery has been a part of the Southwest Detroit community since 1939. Most people recognize that the refinery produces gasoline and diesel fuels to help power our vehicles, asphalt to pave the roads we travel upon, and propane for cooking and keeping our homes warm. But the Detroit refinery also produces chemical-grade propylene, and this is a critical component in products that are part of your everyday life.

The refinery's Citizens Advisory Panel recently enjoyed a presentation from Mike Blackburn, Marathon's Petrochemical Marketing Manager, who described the refining process, shared how propylene is made, and highlighted a few of the products that come from the petrochemicals that are produced right here in Detroit. A brief list includes:

- Plastic storage, packaging & films
- Toys
- Automotive parts
- Medical equipment
- Carpet
- Construction materials – pressboard, sauder, laminate
- Appliances
- Automotive parts
- Polycarbonate lenses, headlight covers
- CDs / DVDs

Petrochemicals You Use Every Day



The propylene is produced in Detroit, then shipped out to various manufacturers for the next step of the creation process. So next time you put on a pair of shoes, turn on the TV, wash your hair or drive your car, it's all made possible through the use of propylene.