

## **Mayfield Community Update - November/December 2023**

With 2023 coming to a close and the winter months just ahead, CSX wanted to share information on expected activity in the Fredericksburg Yard and background safety and environmental sustainability ongoing across our system.

### **Locomotive Idling & Refueling Update**

- Locomotives are idled when temperatures could reach the 30s and is not in use to prevent engine blocks from freezing. If an engine freezes, it has to be rebuilt or in some cases the locomotive is retired.
- To minimize impacts, our crews typically park locomotives on the main line on the west side tracks across from the yard office away from the homes on Railroad Ave. and Canterbury Rd.
- Locomotives refueling is a different issue. Because there is no fuel facility in the yard, we utilize outside companies we refer to as “mobile fueling services” to refuel locomotives. For safety reasons, this refueling typically occurs on the tracks behind the yard office, not on the mainline.
- In the winter refueling occurs about once a week. When the refueling occurs in winter over the weekend when crews may not be in-service, the locomotive may idle for extended periods of time.
- We expect locomotive idling and refueling activities will be similar this winter as they have been in recent years.

### **Tank Car Update**

- Since fall 2022, the community has seen significantly fewer tank cars in the Fredericksburg Yard due to an operational change to how CSX serves the propane customer who was the primary user of tank cars seen in the Yard.
- While expect the current service plan to continue for the foreseeable future, we wanted to note that service changes can occur at any time due to a number of broader network, customer, crew resource or other factors. The current situation should not be considered permanent or we may have new customers in the Fredericksburg area who use tank cars.
- As we have done for the last year and half, CSX will continue to deliver City officials daily inventory reports of hazard material cars in the yard. This provides transparency and up to date information to City officials regarding the type of cars and commodities in the Yard and notification if operations were to change in the future.

Rail Safety & Technology - As national events have brought rail safety more into the public's attention this year, we wanted to provide background on the industry and CSX's positive safety record and proactive steps we are taking to improve rail safety and technology.

- Rail is safest mode of ground transportation, with 99.999% of hazmat cars delivered without incident.
- In 2022, less than 1% of hazardous material spills occurred on railroads, compared to 94% for trucks.
- Derailments have decreased over last decade and CSX proud to have lowest accident rate of Class I railroads.
- CSX's goal is zero accidents. The Ohio incident caused reflection on opportunities to improve safety, which produced important new steps and investments.
  - CSX will spend \$2.3B in core infrastructure this year, most ever.
  - CSX installed an additional 53 Hot-Box Detectors, which detect overheating wheel of a moving train, and 12 additional Acoustic Bearing Detectors, which analyze the acoustic signature inside the bearing to help identify potential issues.
  - CSX expanded use of latest technology including automated track assessment cars and automated train inspection portals to supplement employee inspections to identify defects.
  - CSX extended conductor training program to five weeks from the previous four-week regimen to provide new hires with additional hands-on experience prior to beginning on-the-job training
  - CSX utilized extensive drone safety program to perform a wide range of tasks, including aerial mapping of yards, facility inspection, storm response, accident investigation and law enforcement.
  - Locally, CSX provides Fredericksburg access to AskRail app, which gives first responders information on contents of all rail cars. CSX is working with AAR and other partners to test expanding AskRail to local dispatch centers.
  - CSX utilizes advanced risk assessment technology to review risk assessment, car routing and train building procedures to determine the shortest and safest routes to transport goods categorized as hazardous.

### Environment & Sustainability

CSX and freight rail transportation are an important part of achieving customer and the public environmental and sustainability goals.

Railroads are the most environmentally friendly and energy-efficient way to move goods on land. On average, freight rail is 3-4x more fuel efficient on average and produces 75% fewer GHG emissions than trucks. When our customers move freight by rail, they help reduce transport-related greenhouse gas and other air emissions.

Fuel efficiency gains from rail allow for cleaner air and CSX is taking steps to reduce locomotive air and greenhouse gas emissions and fuel use.

- In 2022, CSX moved one ton of freight 520 miles on a single gallon of fuel and helped customer avoid approximately 12.5 million tons of CO2 emissions
- In 2022, we expanded our use of cutting-edge fuel-saving technologies in locomotives in addition to engaging suppliers around our GHG goals and expectations. Specifically, we:
  - Achieved a 13.1% reduction in emissions intensity since 2014 towards our Science Based Target (SBTi) goal of 37%.
  - Upgraded approximately 180 locomotives to Distributed Power, which moves more freight with less fuel.
  - Implemented Trip Optimizer across our entire network, saving approximately 38 million gallons of fuel system-wide.
- CSX is investing in the development and testing of emerging locomotive alternative fuels and other technologies to help scale these innovations and further reduce the environmental impact of rail.
- In 2023, through partnerships with the government agencies, customers and other railroads, CSX announced projects to operate battery-electric switcher locomotives at the Port of Baltimore, test lower-emission biodiesel fuel in Tampa and convert existing diesel locomotives to hydrogen in Huntington, WV.
- CSX launched of an enhanced carbon emissions reduction calculator that will help companies achieve their supply chain sustainability objectives by converting from truck to rail.

#### Source Material and Additional Information

- [\*CSX Investments and Policy Enhancements Drive Multi-year Safety Improvement Trend\*](#)
- [\*CSX and SMART-TD Partner to Deliver Enhanced Conductor Training with Additional Week of Hands-on Experience\*](#)
- [\*2022 CSX Environmental, Social and Governance Report\*](#)
- [\*2022 CSX ESG Fact Sheet\*](#)
- [\*CPKC and CSX Announce Planned Collaboration to Develop Additional Hydrogen Locomotives\*](#)
- [\*Biodiesel Fuel Testing in Tampa Fleet Demonstrates Cutting-edge Innovation\*](#)
- [\*Enhanced CSX Carbon Calculator Helps Shippers Achieve Sustainability Goals\*](#)
- [\*Progressive Railroading - CSX, Tacoma Rail elicit funds to embrace groundbreaking battery-powered switchers\*](#)