

Maritime Environmental Fact Sheet

Overview

- Conley Terminal was the first container terminal in the United States to develop a comprehensive Environmental Management System (EMS). Massport received ISO 14001 (environmental quality) certification in 2003 and has been re-certified every year since.
- Conley Terminal received a 2015 national Breathe Easy Leadership Award for reducing harmful diesel emissions beyond what is required by law, promoting clean transportation in the northeast.

Thomas Butler Dedicated Freight Corridor and Memorial Park

- Massport has invested \$75 million to build a dedicated freight corridor that will take all the trucks off of East First Street and construct a new park and noise buffer.

Clean Vessel Program

- Less Time at Berth: Ship stay time at Conley Terminal was cut by over 500 hours in 2015 due to productivity improvements.
- Low Sulfur Fuels: Sulfur content of vessels calling Conley Terminal has dropped from 15,000ppm to 1,000ppm in the last six years. NOx emission limits apply to new ships, built in 2015 or later, driving reductions of 80% in NOx emissions for future ship calls at Conley Terminal.
- Clean Technologies: Nearly 1/3 of cruise ships calling the Port of Boston are using clean technologies ranging from exhaust scrubbers, selective catalytic reduction and diesel particulate filters. These technologies reduce PM, SOx, and NOx, improving local air quality.

Idle Reduction Program

Gate technology

- Truck Turn Times: Truck emissions are directly related to the amount of time a truck spends on terminal. Turn times have been cut by over 40% in the last ten years, taking over 41,000 hours of truck idling out of the South Boston community.
- Reduction in Truck Trips: Through better use of technology, and close coordination with port stakeholders, Massport has been able to save 21,000 truck trips per year from arriving in South Boston.
- RTG Idle Reduction Technology: The Conley Terminal RTG fleet will be upgraded with idle reduction technology on the generators which power the machines. By reducing the power produced when the equipment is at rest, noise will be lowered, fuel consumption will be reduced by 28% and emissions significantly reduced.

Clean Truck Program

- We replaced 60 old freight trucks with newer, cleaner diesel trucks at a cost of \$3 million funded by Massport, truck owners, and the U.S. Environmental Protection Agency (EPA). As a result, nitrogen oxides, particulate matter, hydrocarbons, and carbon monoxide have all been significantly reduced.
- With the help of an EPA Grant, we are replacing an additional 26 trucks that will generate even more environmental benefits.

LED Lighting Program

- Conley Terminal's yard lighting will be replaced with LED lighting in 2017

- 750 light fixtures have been replaced on South Boston streets and facilities in the last two years, reducing power consumption by 72%.

Modernized Container Handling Fleet

- Ship to Shore Crane Electrification: All ship to shore cranes at Conley Terminal are electric, not diesel.
- ULSD Diesel Conversion Program: Since 2004, all equipment at Conley Terminal has run on Ultra Low Sulfur diesel, 6 years ahead of the mandate.
- RTG Modernization Program: Massport is using EPA funding to retrofit five diesel-powered rubber tire gantry cranes (RTG) used to load and unload trucks and reposition containers within the yard at Conley Terminal, conserving fuel and reducing noise and emissions.
- DOC Filter Program: Diesel oxidation catalyst filters have been installed on all diesel yard equipment in 2003, which resulted in significant reductions of HC, CO and PM emissions
- Terminal Tractor Replacement Program: Massport is implementing a plan to ensure that all new tractors purchased will have EPA Tier 4 certified diesel engines.
- Propane and Electric Forklift Program: All forklifts at Flynn Cruiseport Boston at the Black Falcon Cruise Terminal run on either propane gas or electricity.

North Atlantic Right Whale Program

- Massport partners with the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service and the U.S. Coast Guard to protect the North Atlantic Right Whale, one of the most endangered species in the world.
- Efforts undertaken over the past 15 years include:
 - Creating a Whale Alert software mobile app that delivers real-time data regarding Right Whale locations and reminders regarding speed limits and vessel reporting requirements
 - Educating mariners about North Atlantic Right Whale behavior
 - Developing and establishing recommended vessel routes

Green Space

- Massport owns and operates the South Boston Maritime Park, East First Street Dog Park, and the soon-to-open Butler Memorial Park.