

San Francisco Bay Ferry



PACIFIC POWER GROUP MARINE

Customer Solutions

CUSTOMER:
**SAN FRANCISCO BAY
WATER EMERGENCY
TRANSPORTATION AUTHORITY**

POWER SYSTEM:
MTU Series 4000 Engines and custom
engineered exhausted system

VESSEL TYPE:
Passenger Ferry

BUILDER:
Kvichak

LOCATION:
Seattle, WA

DATE:
Summer 2017




MTU Series 4000

Propelling San Francisco Bay Ferries to a Cleaner Future

San Francisco Bay Ferries - which operate under the San Francisco Water Emergency Transportation Authority - operate in one of the U.S.' fastest growing regions, serving five different cities in the Central Bay area including San Francisco, Oakland and Alameda. The San Francisco Bay Ferries are a welcomed alternative to the otherwise congested commute throughout the bay area and are also available as emergency transportation.

On a daily basis, The Bay Ferries offer riders a traffic-free means to explore the Bay by water while enjoying some of the bay's scenic views of the Golden Gate Bridge, Alcatraz, and ATT Stadium.

In order to update their aging fleet, they sought to build two new innovative ferries to replace two older vessels. Kvichak Marine won the contract to build the vessels and PPG, WETA's longtime propulsion partner, had the honor of engineering a new, efficient propulsion system for the new Bay Ferries. California is on the forefront of energy efficiency and environmentally-friendly policies and a cleaner operating system for the Bay Ferries was a primary concern.

PPG engineered two propulsion systems for WETA that make them the cleanest operating passenger ferries in the U.S. Third party independent emission testing conducted by The University of California at Riverside Center for Environmental Research and Technology found that the two MTU 12V4000 M64 1950

hp engines and ZF 7600 reduction gears will provide the WETA vessels clean-running operation that helps lower the ferries' emissions output.

The propulsion systems provide a 10 ton reduction of NOx, PM and CO emissions annually through selective catalytic reduction and diesel oxidation catalyst technologies. The MTU Series 4000 engines also offer increased safety, lower fuel consumption and greater reliability for the commercial passenger vessels.

The two new ferries will join the five PPG- and MTU-powered ferries that comprise the majority of the WETA fleet. These ferries will replace two of the older models that are nearing the end of their 25-year-life. The 135' x 38' catamarans will be able to accommodate 400 passengers and travel at speeds up to 27 knots, all while being the cleanest operating ferries in the U.S. The WETA vessels are currently under construction at Kvichak's shipyard and are expected to be out in the bay by the summer of 2017. 🌊