

PORTLAND



PACIFIC

POWER GROUP

MARINE

Customer Solutions

CUSTOMER:
CITY OF PORTLAND

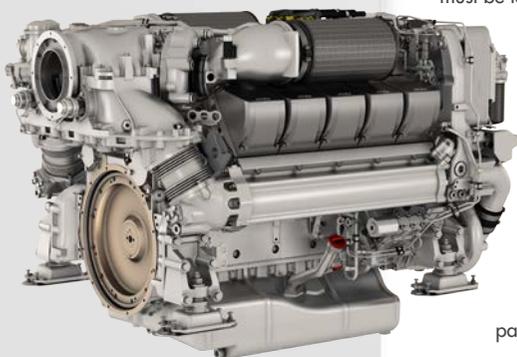
POWER SYSTEM:
MTU Series 8V2000

VESSEL TYPE:
Fireboat

BUILDER:
Oregon Iron Works

LOCATION:
Portland, OR

DATE:
Summer 2015




MTU Series 2000

Double-Duty Propulsion for Portland Fireboats Save City on Weight, Costs

The City of Portland is responsible for a large emergency response zone on the Columbia and Willamette rivers – nearly 150 miles of the rivers are under their care.

Their crucial emergency response zone includes numerous ports, industrial areas and several densely-populated municipalities along the rivers, which themselves are key inland transportation and shipping routes. That means the city's fireboats are vital for providing adequate emergency response. When the City needed new fireboats to keep the local industry and community safe, Oregon Iron Works and Pacific Power Group teamed up to supply the city with two new fast-response vessels.

"Portland Fire has an aging fleet of fireboats that must be taken out of service on an increasing basis for repair and maintenance, impacting our marine response capabilities," said Portland City Commissioner Randy Leonard. "These two new boats will insure dependable emergency response on Portland's waterways for the next 40 years."

The boats were to be built by Clackamas, OR-based Oregon Iron Works, a longtime partner of Pacific Power Group.

Pacific designed and engineered a complete propulsion solution which included the main engines, transmissions and drive lines for the boats to have

critically-important high performance fire-fighting capabilities. The vessels are powered by MTU 8V2000 M84L engines and Rolls-Royce FF450S water jets, selected due to their internationally-trusted reliability and success in demanding marine environments.

The vessel's MTU engines do 'double-duty' by providing power for both propulsion and for the firefighting pumps. Both economical and revolutionary, Pacific's solution supplies up to 8,000 gallons of water per minute through the fire monitors without the addition of a dedicated fire pump engine, which is standard in typical fireboats.

The common propulsion/fire pump engines save significant costs for the City by allowing the purchase of fewer engines. It also reduces the fireboats' weight for the City by reducing the number of engines needed - providing a much faster boat with less power and size. The solution was engineered in-house by Pacific Power Group's expert marine engineering team and allows the fireboats to fight fires both on land and in water.

With the new, weight-saving propulsion system supplied by PPG, the new fireboats can travel up to 40 knots and respond significantly faster in the City's large emergency response area – keeping Northern Oregon and Southwest Washington safer each day. 