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June 23, 2015

CITY OF SAN FRANCISCO SELECTS MTU SERIES 2000 ENGINES FROM ROLLS-ROYCE TO REPOWER AUXILIARY WATER SUPPLY SYSTEM

- State-of-the-art MTU diesel engines to repower historic San Francisco emergency firefighting water supply system

NOVI, MICH., U.S.A. – San Francisco Public Utilities Commission (SFPUC) has chosen MTU, a Rolls-Royce Power Systems brand within the Land and Sea division of Rolls-Royce and leading manufacturer of diesel engines and propulsion systems, to repower the San Francisco Fire Department's 102-year-old Auxiliary Water Supply System (AWSS).

Four MTU Series 2000 engines will power the AWSS emergency pump stations, which have a rated pumping capacity of 2,700 gallons per minute and are responsible for pumping water directly from San Francisco Bay specifically for fire protection.

The MTU 12V 2000 C12 engines, which will be installed this fall, will replace four Detroit Diesel Series 71 engines, which were installed in 1972 to replace the system's original steam engines. MTU acquired the Detroit Diesel 2-Cycle product line in 2006 and the legendary reliability of the Series 71 lives on in these newer, more powerful four-stroke engines from MTU.

The AWSS network was constructed after San Francisco's devastating 1906 earthquake, when the shaken city was unable to tap into the San Francisco Bay's abundance of water to extinguish the earthquake's subsequent building fires. Completed in 1913, the network is made up of a collection of water reservoirs, cisterns, suction connections, fireboats and two pump stations, one of which is in the basement of San Francisco Fire Department's headquarters. Some of the building's historical features include marble flooring, original windows and doors, as well as mechanical equipment such as process gauges and valves that date back to the building's original construction in the early 1900s. The building also features the city's Firefighters Memorial Wall that pays tribute to those who gave their lives to save the lives of others in fires, natural disasters and medical emergencies.



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California-based MTU distributor, Valley Power Systems Inc., will provide local support following the installation of the engines. With more than 60 years of expertise, Valley will provide the AWSS with turnkey power engineering services, regulatory compliance assistance, and training and technical support, in addition to complete systems integration.

“We have worked closely with all parties involved, including the city of San Francisco and the San Francisco Fire Department to ensure great care is taken during the course of this project to protect the building’s many historical features,” said Tom Eastman, service manager, Valley Power Systems North, Inc. “In addition to meeting several local, state and federal requirements for air quality, noise compliance and seismic safety, the engines also have the ability to be controlled and monitored remotely.”

Built at MTU’s Aiken, S.C. production facility, the Series 2000 is a leader in economical operation and powerful performance with maximum availability and reliability and low life-cycle costs.

“It gives us great pride to provide the power that will help the firefighters who rely on this critical emergency water supply system as they protect the lives of area residents,” said Scott Woodruff, director of industrial engine sales, MTU America Inc. “Like the AWSS, MTU has a legacy of reliability. We are honoured to have the opportunity to continue that legacy as an important part of the San Francisco public safety infrastructure.”



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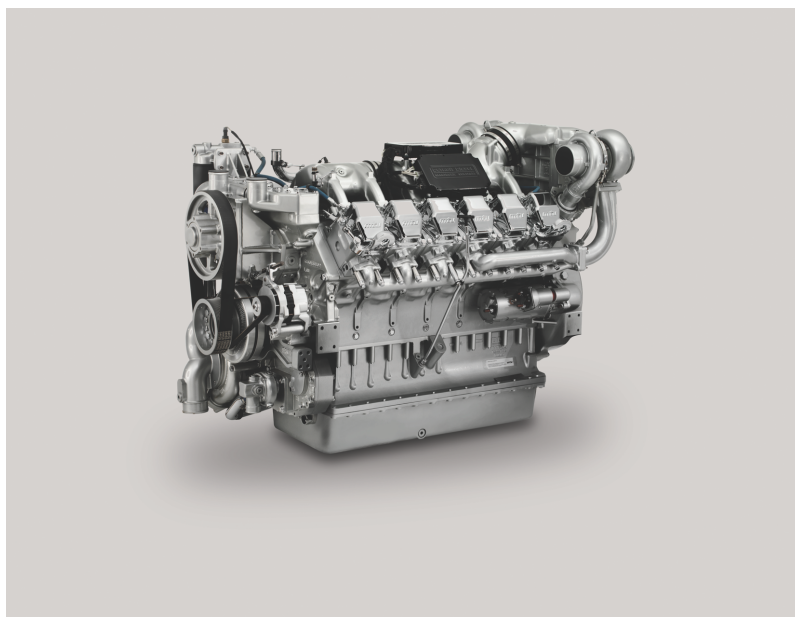
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Four Detroit Diesel Series 71 2-Cycle engines, such as the one in the above photo, will be replaced by new MTU Series 2000 engines from Rolls-Royce, like the one pictured below, later this year.



Press photos are available for download from www.mtu-online.com/mtu/press

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About Rolls-Royce Holdings plc

1. Rolls-Royce's vision is to create better power for a changing world via two main business divisions, Aerospace and Land & Sea. These business divisions address markets with two strong technology platforms, gas turbines and reciprocating engines. Aerospace comprises Civil Aerospace and Defence Aerospace. Land & Sea comprises Marine, Nuclear and Power Systems.
2. Rolls-Royce Power Systems is headquartered in Friedrichshafen in southern Germany and employs around 11,000 people. The product portfolio includes MTU-brand high-speed engines and propulsion systems for ships, power generation, heavy land, rail and defence vehicles and for the oil and gas industry. Under the MTU Onsite Energy brand, the company markets diesel gensets for emergency, base load and peak load applications as well as cogeneration plants using gas engines for the combined generation of heat and power. Bergen medium-speed engines power ships and power generation applications. L'Orange completes the portfolio with fuel injection systems for large engines.
3. Rolls-Royce has customers in more than 120 countries, comprising more than 380 airlines and leasing customers, 160 armed forces, 4,000 marine customers including 70 navies, and more than 5,000 power and nuclear customers.
4. Our business is focused on the 4Cs:
 - Customer – placing the customer at the heart of our business
 - Concentration – deciding where to grow and where not to
 - Cost – continually looking to increase efficiency
 - Cash – improving financial performance.
5. Annual underlying revenue was \$22.6 billion in 2014, around half of which came from the provision of aftermarket services. The firm and announced order book stood at \$114.4 billion at the end of 2014.
6. In 2014, Rolls-Royce invested \$1.9 billion on research and development. We also support a global network of 31 University Technology Centres, which position Rolls-Royce engineers at the forefront of scientific research.
7. Rolls-Royce employs over 54,000 people in more than 50 countries. Over 15,500 of these are engineers.
8. The Group has a strong commitment to apprentice and graduate recruitment and to further developing employee skills. In 2014 we employed 354 graduates



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and 357 apprentices through our worldwide training programs. Globally we have over 1,000 Rolls-Royce STEM ambassadors who are actively involved in education programs and activities; we have set ourselves a target to reach 6 million people through our STEM outreach activities by 2020.

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